BRITISH RAINFALL,

1899.

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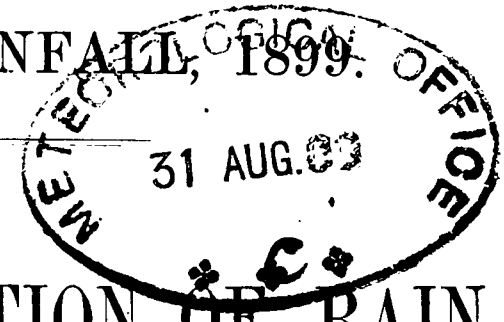
BRITISH RAINFALL, 1899.



ON

THE DISTRIBUTION OF RAIN

OVER THE

BRITISH ISLES,

DURING THE YEAR

1899,

AS OBSERVED AT ABOUT 3500 STATIONS IN GREAT BRITAIN AND IRELAND,

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK.

COMPILED BY

H. SOWERBY WALLIS,

Fellow Royal Meteorological Society; Member Scottish Meteorological Society; Member Sanitary Institute.

LONDON:
EDWARD STANFORD, COCKSPUR STREET, S.W.
1900.

ERRATA IN BRITISH RAINFALL, 1898.

Page 45. At foot of table, last line, No. 2 should be No. 1.

,, [78]. Bournemouth, Kempsey: For *four* partial droughts read *three* partial droughts.

,, [115]. Head line, "1897," should be "1898."

,, [118]. May 23rd. The Knypersley return is untrustworthy.

,, [120]—[122]. The dates should be "October 16th to 18th."

,, [153]. Abstract. In headline, "1897" should be "1898."

,, [168]. Kent. Tenterden (Summerhill): *for* "18·56 in." *read* "23·59 in." A wrong glass was used.

,, [178]. Bucks. Gorefield Vicarage. The return is from Gorefield, near Wisbech, Cambs.

,, [195]. Hereford. Kington (Belmont). The return is *not* from Belmont, near Kington.

,, [208]. Lancashire. Grange (Eggerslack). For "Anonymous," substitute "Miss H. B. Arkwright."

ERRATUM IN BRITISH RAINFALL, 1899.

Page [219]. Leeds (Weetwood Lodge). 1898 values sent by mistake.

CONTENTS.

	PAGE
PREFACE	7
REPORT—CHANGE IN EDITORSHIP—ARRANGEMENT OF THE GENERAL TABLES—CHECKING—THE RAINFALL OF SNOWDONIA—RAINFALL OF THE DECADE, 1890–99—FINANCE	8
LIST OF SUBSCRIBERS	10
G. J. SYMONS, F.R.S. OBITUARY NOTICE	14
THE RAINFALL OF THE DECADE, 1890–99	20
RECORDS OF EVAPORATION	31
COMPARISON OF GERMAN AND ENGLISH RAIN GAUGES AND OF MR. SIDEBOTTOM'S SNOW GAUGE	35
RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH	36
THE STAFF OF OBSERVERS	37
OBITUARY	54

RAINFALL AND METEOROLOGY OF 1899.

ON THE METEOROLOGY OF 1899, WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA	[3]
OBSERVERS' NOTES ON THE MONTHS OF 1899	[38]
OBSERVERS' NOTES ON THE YEAR 1899	[82]
HEAVY FALLS IN SHORT PERIODS IN 1899	[117]
HEAVY FALLS ON RAINFALL DAYS IN 1899	[122]
DROUGHTS IN 1899	[138]
MONTHLY RAINFALL OF 1899	[144]
TABLES OF MONTHLY RAINFALL AT 232 STATIONS IN 1899	[152]
THE RELATION OF THE TOTAL RAINFALL IN 1899 TO THE AVERAGE	[159]
COMPARISON OF THE RAINFALL OF THE YEAR 1899 WITH THE AVERAGE OF THE YEARS 1880–89	[162]
EXTREMES OF RAINFALL IN 1899	[166]

GENERAL TABLES OF TOTAL RAINFALL.

EXPLANATION OF THE ARRANGEMENT OF THE GENERAL TABLES	[168]
COUNTY INDEX TO GENERAL TABLES	[169]

ILLUSTRATIONS.

Portrait of the late G. J. Symons, F.R.S.	*Frontispiece.*
Difference of the Average Rainfall, 1890–99, *from the average of a long series of years*	*face p.* 25
Heavy Falls in Short Periods	*face p.* [120]
Maps of Monthly Rainfall	*between pp.* [144] & [145]
Difference of the Total Rainfall in 1899 *from the Average*	*face p.* [160]

PREFACE.

For the first time the preface to *British Rainfall* is not from the hand of the Founder of the Organization.

Last year he wrote—"In Meteorology, and especially as regards rainfall, continuity and uniformity of procedure are of paramount importance. It is, therefore, satisfactory to consider that this is the thirty-ninth consecutive Annual Report, and that, though the volumes have grown enormously in dimensions, and additional details have been given, the general arrangement has been identical throughout."

"The *British Rainfall* volumes have gained their position by hard work, and by scrupulous attention to accuracy."

This might almost have been penned as a warning to his successor, but that at the time it was written there was every reason to hope that he would see through the press not only the fortieth, but even the fiftieth volume. No one can regret more than the present Editor that he was not spared to do so.

As regards ourselves, in thirty years' work we have so thoroughly realised the fact, that no warning could emphasize it, but when our time comes to give up the reins, we would pass it on to our successor as the undying tradition of the Organization.

An unusual amount of responsibility has this year devolved upon our assistants, but they have mostly had several years' training in the work: we are sure that they have loyally done their best, and hope that the character of the work has been fully maintained.

H. SOWERBY WALLIS.

62, CAMDEN SQUARE, LONDON, N.W.,
August 16th, 1900.

REPORT.

The change in the Editorship.—The first subject to which reference must be made is the gravest which has ever been mentioned in these pages—the death of the Founder of the Organization. The thirty-nine volumes of *British Rainfall* for which he was responsible are his best monument; but it is not here that tribute should be paid to his memory. For nearly 30 years I have been associated with him in the work, and from 1890 onwards my name has appeared on the title page as joint editor with him. At his express request I have taken up his labours, and, as far as somewhat impaired health will permit, shall carry on the work unchanged on the lines which it had assumed as the outcome of our careful consideration, and which had become almost stereotyped.

Arrangement of Stations.—From time to time suggestions have been made as to a re-arrangement of the stations in the General Tables, either on the lines of river basins or other natural divisions, but the gain of any suggested plan appeared very doubtful. There is great danger in departing from established practice without adequate reason, and to embark on a policy of experiment would lead to hopeless confusion. Moreover, the recent creation of the County Councils has tended not only to render their somewhat arbitrary boundaries permanent, but also to make them better known both on the ground and on paper, and, therefore, most convenient to the community in a work of reference.

Checking.—This extremely heavy branch of the work, to which somewhat full reference was made in last year's Report, has been carried out, with the completeness there described, by the three assistants who have done it in former years, with less of my personal supervision, it is true; but I hope, and have no doubt, that the very high standard of accuracy which has always been striven after has been maintained in the present volume.

The Rainfall of Snowdonia.—The observations for 1899 have fully shown the almost superhuman difficulty of the task which Mr. Gethin Jones has set himself. The impossibility of frequent access to gauges on Snowdon in the winter months, and the doubtful accuracy of the records in cases of heavy and drifting snow, have rendered the records of four of the gauges too incomplete for insertion in the General Tables; but no fewer than eight are perfect and appear in Carnarvonshire with totals ranging from 93·89 in. to 131·90 in., six being above 100 inches. The four gauges on the slopes of Snowdon, for which the records are not absolutely perfect, indicate falls of 137 in., 148 in., 155 in. and 175 in. respectively. The latter is the largest total for any station in Wales that we can find, exceeding by 15 inches the 160·16 in. recorded at Pen-y-gwryd in 1877.

Rainfall of the Decade 1890-99.—In the present volume the average rainfall of the last decade is briefly discussed, the values being given for a hundred stations well distributed over the three kingdoms. This is, of course, a very small proportion of the number that will be available—probably not much more than a tenth of them—but it is yet too early to say how many there are. The provisional discussion indicates that not only did the average for the period vary considerably in different parts of the country, but also that the monthly means are rather irregular. This will, to some extent, depreciate the value of the averages for the period as a basis of calculation for general rainfall work.

Finance.—The almost unanimous manner in which the rainfall observers have promised to aid me in carrying out the wishes of our late chief is a source of the greatest gratification to me, and many observers have increased the amount of their subscriptions. This gives a most helpful sense of security, for if I had felt that I must face an uncertain exchequer in addition to the loss of the aid and counsel of the founder of the Organization, the burden would indeed have been a heavy one. The following list is rather short, because I have devoted all my energies to *British Rainfall*, in order that it might be issued as near to the usual date as possible, and have not delayed to send a reminder to those subscribers who have overlooked the matter.

H. SOWERBY WALLIS.

LIST OF ALL SUMS OF £1 AND UPWARDS RECEIVED IN PAYMENT FOR BOOKS, DIAGRAMS, &c., OR AS CONTRIBUTIONS TO THE GENERAL EXPENSES OF RAINFALL INVESTIGATIONS IN 1900.

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,, J. F., Esq.	2	0	0
Robinson, Prof. H., C.E.	1	1	0
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Robson, J. W., Esq.	1	1	0
Roe, Surgeon-General, C.B.	1	1	0
Rolle, The Hon. Mark	1	1	0
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Scott, Benjamin, Esq.	1	1	0
,, J. W., Esq.	2	2	0
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Searle, G. von U., Esq.	1	0	0
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Sibly, T. D., Esq.	1	1	0
Sidebotham, Dr. E. J.	1	0	0
Simpson, E., Esq.	1	0	0
Sing, Joshua, Esq.	1	0	0
Single, Stanley, Esq.	1	0	0
Slade, F., Esq., C.E.	1	1	0
Smart, F. G., Esq.	2	2	0
Smith, B. Woodd, Esq.	1	1	0
,, Harold, Esq.	2	2	0
,, Rupert, Esq., C.E.	1	1	0
,, Hon. W. F. D., M.P.	3	0	0
Smyth, J., Esq., C.E.	1	15	0
Snowden, Rev. H. C. V.	1	1	0
Soames, Capt.	1	0	0
Southall, H., Esq.	1	0	0
,, J. T., Esq.	1	1	0
Sparkes, J., Esq.	1	6	0
Spooner, Albert, Esq.	1	1	0
Squire, W. W., Esq., C.E.	1	1	0
Staines, A. J., Esq.	1	7	3
Stansfeld, A. W., Esq., C.E.	1	1	0
Stanton, Miss R.	1	0	0
Stewart, Sir Mark J., Bt., M.P.	1	1	0
,, Rev. W. E.	1	1	0
Stow, F. S. Philipson, Esq.	1	1	0
Stubs, Peter, Esq.	1	1	0
Sturge, R. F., Esq.	1	1	0
Sturt, Col.	1	15	0
Sutton, Martin J., Esq.	1	1	0
Swindells, R., Esq., C.E.	1	0	0
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Tate, Alfred, Esq.	1	1	0
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,, F., Esq.	1	0	0
,, W., Esq.	1	1	0
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,, Mrs. Heywood	1	1	0
Trench, Mrs.	1	5	6
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Ward, H., Esq.	1	6	6
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,, J. G., Esq.	1	11	6
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Woolcombe, Rev. G. L.	1	0	0
Wright, Col. Ichabod	1	1	0
Yool, G. A., Esq.	2	7	0
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George James Symons.

BORN 6TH AUGUST, 1838. DIED 10TH MARCH, 1900.

THE creator of the Rainfall Organization, George James Symons, was born at Queen's Row, Pimlico, on the 6th August, 1838. He was the only child of Joseph and Georgiana Symons (*née* Moon), the Symonses being of Cornish extraction.

His father was engaged in business, but the boy shewed early signs of a love of science, and constructed for himself a mercurial barometer and other meteorological instruments, the remains of which the writer has often seen. He was educated at St. Peter's Collegiate School, Eaton Square, and later at Thornton, in Leicestershire, with the sons of the Rev. Samuel Adams, by Mr. R. Smyth and Mr. Macgill, both Irishmen. A fellow student at this time remembers him as a shy lad, always good-tempered and companionable, but not impressing his companions as of remarkable ability. During the rebuilding of Thornton Rectory the party removed to Markfield, and in the house which they there occupied was a crack in the wall attributed to an earthquake. Anyone who knew Symons as well as I did could have no hesitation in tracing to this the interest which seismology always had for him. Subsequently he passed with distinction through the course at the School of Mines, winning the unstinted praise of the professors.

In his eighteenth year, on March 25th, 1856, he was elected a Member of the British Meteorological Society, and from that time onwards he was one of the most regular attendants at the meetings, letting neither business nor pleasure interfere. He was blessed with singularly good health, and we do not remember a single instance of absence on that score.

The first instance of his speaking at a meeting was on March 24th, 1857; he read a paper on the thunderstorms of 1857 in June, 1858, was elected a Member of Council on June 17th 1863, vice-president

in June, 1871, and honorary secretary in June, 1873, on the retirement of Mr. Glaisher. The latter office he held until his death, except during the time that he served as President. During these years he took an active part in all the work of the Society, grudging no time in advancing its interests, organising its observations, inspecting its stations, promoting its exhibitions, searching for new premises, and serving on numerous committees. In January, 1900, he was for the second time elected President, for the celebration of the Jubilee of the Society, and until stopped by his fatal illness he was working heart and soul to make the meetings a success. In 1879, when the Society was anxious to make some recognition of his services, the presentation, at his request, took the form of an album containing the portraits of as many members of the Society as could be obtained.

In 1860 Admiral Fitzroy offered him an appointment in the Meteorological Department of the Board of Trade, and he remained there until 1863, when he resigned in order to devote his whole time to *British Rainfall.* His reduction of the Anemometrical observations made at Bermuda in 1859-60, was published in the *Meteorological Papers* of the Board of Trade in 1861. The easy hours of a Government Office did not satisfy his capacity for work, and he began an investigation of thunderstorms in 1857, and the results were given in his first paper read before the Meteorological Society in 1858. The report on the three years, 1857-59, was read before the British Association in 1860, and again before the Royal Meteorological Society in 1888, as a sort of introduction to the thunderstorm observations then commenced by the Society.

This early thunderstorm inquiry suggested to him the collection of general rainfall statistics, and for the year 1860 he published a small quarto leaflet giving the rainfall at 168 stations in England and Wales.

For 1861 he extended the publication to the whole of the British Isles, and was able to obtain about 500 records; with these he printed the 1860 figures to supplement the 4to leaflet for that year, and the work appeared as an 8vo pamphlet.

In 1863, as before mentioned, he resigned his appointment at the Board of Trade, and *British Rainfall* became his life's work. How it has grown from its small beginning the present volume shows, and on p. 37 will be found some statistics of its growth from time to time. With 1863 he began the issue of a monthly rain circular,

which in 1866 developed into the *Meteorological Magazine.* This is still published, and is the only instance of a Magazine in the English language devoted to Meteorology which has reached a mature age.

To refer to all the varied investigations of rainfall phenomena which he promoted, and to his writings on the subject, would be to summarise the 40 volumes of *British Rainfall* and the 35 years of the *Meteorological Magazine.* This, of course, is impossible, and would only lead up to the conclusion universally admitted that he was the greatest authority on all branches of British Rainfall and an all-round meteorologist of wide attainments.

In 1857 he commenced to send returns of his meteorological observations to the Registrar-General, and continued to do so up to the time of his death.

He was a member of the General Committee of the British Association from 1859; served on the council from time to time; and was chairman, secretary or member of numerous committees, including The Climate of Tropical Africa Committee, The Committee on Meteorological Photography, The Corresponding Societies Committee, The Rainfall Committee, The Seismological Committee and The Solar Radiation Committee.

In or about 1861 he was elected a member of the Scottish Meteorological Society.

In 1869 he was elected a Fellow of the Royal Botanic Society, and in 1870 became a Member of Council, and was for several years Chairman of the Exhibition Committee, receiving special votes of thanks for his services in connection with the evening fêtes and the floral parades. In 1891 he resigned his seat on the Council when it was determined to allow smoking in the gardens, to which he had always been strongly opposed, though himself a smoker.

In 1872 the Société Météorologique de France elected him a member, and he twice served on the Council of that Society, and in attending the meetings was a frequent visitor to Paris.

In 1876 he was elected an honorary member of the Watford Natural History Society; received a Telford Premium of the Institution of Civil Engineers for his paper on "Floods and Water Economy;" and a certificate of thanks for his assistance in connection with the Loan Collection of Scientific Apparatus at South Kensington.

In 1878 he became a Fellow of the Royal Society and a member of Council of the Social Science Association.

In 1878 he became the secretary of the Conference on Lightning Rods arranged by the Meteorological, Physical and Telegraph Engineers' societies and the Royal Institute of British Architects, and for four years devoted much time to it, editing the Report.

In 1879 he was asked to preside over Section III. of the Sanitary Congress at Croydon ; he joined the Institute, was elected a member of council, and in 1880 became Registrar, resigning the office in 1895, but he retained his interest to the end, attending the Southampton Congress in 1899.

Shortly after the eruption of Krakatoa in August, 1883, he suggested that the Royal Society should appoint a committee to undertake an exhaustive study of the occurrence. He was elected chairman of the committee and edited the report.

In 1884 he was appointed a juror at the Health Exhibition, and Membre correspondant étranger Société Royale de Médicine Publique de Belgique. Two days after the great earthquake in Essex on April 22nd, the writer spent a long day with him going over the whole district, making notes of the damage, from which he prepared a report for the Mansion House Committee, and also an article for the *Meteorological Magazine.*

In 1885 the Essex Field Club elected him an honorary member.

In 1886 he became an honorary member of the Meteorological Society of Australasia, and Korrespondirendes Mitglied der Deutschen Meteorologischen Gesellschaft.

In 1887 the Northamptonshire Natural History Society, and the Biarritz Association, elected him honorary member.

In 1888 the Croydon Microscopical Club elected him an honorary member, the Royal Horticultural Society a Fellow, and the Société Météorologique de France elected him member of Council.

In 1891 he was created a Chevalier de la Légion d'Honneur.

In 1892 he delivered a Friday evening discourse at the Royal Institution on "Rain, Snow and Hail," and became Socio Coures-pondiente Sociedad Cientifica Antonio Alzate, Mexico.

In 1894 the Société Météorologique de France a second time elected him a member of Council.

In 1900 he became a member of Council of the Royal Society, and for the second time President of the Royal Meteorological Society.

He was a great lover of books, and his library comprised nearly 10,000 volumes (including pamphlets), being very rich in early meteorological works. For many years he had compiled a catalogue

of meteorological books and articles, which reached a total of between 60,000 and 70,000 titles. In 1882, he contributed about 20,000 titles to a bibliography prepared by the U.S. Weather Bureau.

He was ever ready to help others to work, supplying freely assistance, counsel, information or funds as seemed most requisite. He was a man of singularly genial manner, making a friend of almost everyone with whom he came in contact, even those with whom he differed, while I do not think that he made a single enemy. His father died while he was but a youth: to his mother he owed much both for sympathy and encouragement in his work, and for substantial help in it. He married, in 1866, Miss Elizabeth Luke, who also shared his work and attended with him the British Association and other meetings; their only child died in the following year, and Mrs. Symons in 1884, leaving him almost without near relations.

On February 14th he was struck down by paralysis, and although for a time he made progress towards recovery, unfavourable symptoms supervened, and he sank painlessly and peacefully to well-earned rest on March 10th, 1900.

After a memorial service at Trinity Church, St. Marylebone, attended by the President and Secretary of the Royal Society and by many other leading men in the scientific world, his remains were interred in Kensal Green Cemetery, beside those of his father, mother, wife and child.

I had purposed concluding these very imperfect notes with a complete list of my old friend's works; but though his writings cover thousands of pages, he was not the author of many books. The list of articles would probably have run to 50 pages; it would have been difficult to determine what to include, and it would be impossible to make it complete, for in *British Rainfall* and the *Meteorological Magazine* his articles were never signed, and I could not rely on memory to distinguish them. He contributed to the publications of the following Societies:—The British Association, The Colonial Institute, The Institute of Civil Engineers, The Royal, The Royal Agricultural, The Royal Botanic, The Royal Meteorological, The Sanitary Institute, The Social Science Association, The Society of Arts, The Surveyors' Institution; and also to *The Times*, *Nature*, *Science Progress*, *The Colonies and India*, &c., &c.

The chief books which he wrote or edited were the 39 volumes of

British Rainfall, 34 volumes of the *Meteorological Magazine*, "Rain: How, When, Where and Why it is Measured"; the Report of the Krakatoa Committee; the Report of the Lightning Rod Conference; "The Floating Island in Derwentwater"; Cowe's Meteorological Register; Merle's Manuscript; and "Theophrastus on Winds and Weather Signs."

Mr. J. G. Wood, of Maida Vale, the translator of the last named work, and one of the few remaining observers whose records were printed in the first volume of *British Rainfall*, desired, in memory of our late friend, to contribute to the 40th volume the best portrait of him that could be produced. We yielded our claim in favour of that of an older friend, and think that those who knew our late chief will agree that a more lifelike presentation of his genial personality could scarcely have been hoped for.

THE RAINFALL OF THE DECADE 1890-99.

THIS is the first time in the annals of *British Rainfall* that an attempt has been made to discuss the rainfall of a decade in the volume for the year which terminates that decade. We were, perhaps, unwise in departing from an established practice, inasmuch as the great amount of calculation involved has delayed by a few days the issue of the work; already—not unnaturally—late, owing to the loss sustained in the death of the Founder of the Organization.

We were anxious to deal with the subject with sufficient completeness to give the broad general features, inasmuch as the number of records complete for the ten years, 1890-99, is so great, that to calculate the means for all, and critically examine them, and discuss the results in all their details, will, probably, occupy more than one year; and it appeared to us that what may be described as an interim report was called for.

We selected one hundred stations, equably distributed over the three kingdoms, at which the records were complete for the decade: 45 for England, 6 for Wales, 27 for Scotland, and 22 for Ireland.

The first essential is to determine the true mean for a long period, and at ten out of the hundred stations the observations have been continued for 50 years. These values are given in Table I.

In Table II. the averages for the same stations, for the 30 years, 1870-99, are given; and in Table III. the same values expressed as percentages of the average for 50 years.

TABLE I.—*Average Monthly Rainfall for the Fifty Years*, 1850–99.

Division.	III.	III.	III.	VIII.	VIII.	X.	XIV.	XIV.	XVI.	XVI.	Average.
Station.	Hitchen.	High Wycombe.	Ely. Stretham.	Rufford.	Holker.	Kendal.	Bothwell Castle.	Waulk Glen.	Loch Leven Sluice.	Craigton.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	1·98	2·35	1·34	2·78	4·06	5·37	2·83	5·45	3·64	3·37	3·32
Feb.	1·48	1·62	1·03	2·03	3·03	3·97	2·08	4·14	2·78	2·65	2·48
Mar.	1·51	1·62	1·18	2·18	2·98	3·60	1·87	3·38	2·50	2·57	2·34
Apr.	1·59	1·53	1·32	1·77	2·24	2·53	1·47	2·38	1·99	2·34	1·92
May	1·98	1·73	1·78	2·09	2·38	2·76	1·90	2·59	2·25	2·30	2·17
June	1·94	1·93	1·93	2·59	2·94	3·19	2·24	2·94	2·55	2·56	2·48
July	2·56	2·19	2·62	3·26	3·64	3·90	2·79	3·39	2·97	3·25	3·06
Aug.	2·39	2·08	2·40	3·60	4·44	4·91	2·94	4·17	3·60	3·66	3·42
Sept.	2·15	2·37	2·06	3·40	4·21	4·59	2·52	4·03	2·99	3·09	3·14
Oct.	2·70	2·76	2·26	3·98	4·82	5·11	2·73	4·65	3·72	3·55	3·63
Nov.	2·35	2·39	1·93	3·13	4·13	4·66	2·51	4·41	3·39	3·32	3·22
Dec.	1·89	2·17	1·44	3·07	4·30	5·30	2·80	5·37	3·72	3·33	3·34
Year.....	24·52	24·74	21·29	33·88	43·17	49·89	28·68	46·90	36·10	35·99	34·52

TABLE II.—*Average Monthly Rainfall for the Thirty Years* 1870-1899.

Division.	III.	III.	III.	VIII.	VIII.	X.	XIV.	XIV.	XVI.	XVI.	Average.
Station.	Hitchen.	High Wycombe.	Stretham.	Rufford.	Holker.	Kendal.	Bothwell Castle.	Waulk Glen.	Loch Leven Sluice.	Craigton.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	1·81	2·18	1·26	2·66	3·90	5·20	2·57	5·18	3·32	3·01	3·11
Feb.	1·54	1·78	1·11	2·02	2·92	3·74	1·91	3·65	2·81	2·92	2·44
Mar.	1·53	1·56	1·11	2·21	3·08	3·84	1·88	3·47	2·61	2·60	2·39
April	1·62	1·54	1·43	1·75	2·19	2·45	1·39	2·32	2·00	2·59	1·93
May	1·86	1·57	1·77	2·10	2·43	2·89	1·94	2·66	2·32	2·51	2·20
June	1·89	1·84	2·05	2·41	2·84	3·00	2·20	2·86	2·41	2·67	2·42
July	2·55	2·13	2·76	3·36	3·95	4·32	2·92	3·42	3·09	3·59	3·21
Aug.	2·26	2·11	2·43	3·59	4·45	4·88	3·20	4·29	3·70	4·11	3·50
Sept.	2·26	2·41	2·21	3·42	4·38	4·61	2·66	4·26	2·94	3·18	3·23
Oct.	2·72	2·87	2·42	3·95	4·96	5·31	2·62	4·63	3·60	3·54	3·66
Nov.	2·57	2·62	2·09	3·16	4·34	4·87	2·85	4·96	3·71	3·54	3·47
Dec.	2·05	2·32	1·52	3·08	4·25	5·30	2·78	5·21	3·69	3·47	3·37
Year	24·66	24·93	22·16	33·71	43·69	50·41	28·92	46·91	36·20	37·73	34·93

TABLE III.—*Average Monthly Rainfall for the* 30 *years*, 1870-99, *expressed as Percentages of* 50 *year Averages.*

Division.	III.	III.	III	VIII.	VIII.	X.	XIV.	XIV.	XVI.	XVI.	
Stations.	Hitchen.	High Wycombe.	Stretham.	Rufford.	Holker.	Kendal.	Bothwell Castle.	Waulk Glen.	Loch Leven Sluice.	Craigton.	
Jan.	91	93	94	96	96	97	91	95	91	89	93
Feb.	104	110	108	100	96	94	92	88	101	110	100
March.....	101	96	94	101	103	107	101	103	104	101	101
April	102	101	108	99	98	98	95	97	101	111	101
May	94	91	99	100	102	105	102	103	103	109	101
June	97	95	106	93	97	94	98	97	95	104	98
July	100	97	105	103	109	111	105	101	104	111	105
Aug.	94	101	101	100	100	99	109	103	103	112	102
Sept.	105	102	107	101	104	100	106	106	98	103	103
Oct.	101	104	107	99	103	104	96	100	97	100	101
Nov.	109	110	108	101	105	105	114	113	109	107	108
Dec.	109	107	106	100	99	100	99	97	99	104	102
Year...	101	101	104	99	101	101	101	100	100	105	101

From Table III. it will be seen that the average for the 30 years is one per cent. greater than for the 50 years, an error quite immaterial; and the six English stations give an average practically identical with that for the four Scottish stations.

So far as the year is concerned, therefore, there will be no violence done to the truth by assuming that the average of the 30 years, 1870-99, gives the true value for a long period.

As regards the months, the values are not so accordant, for we find a variation from 93 per cent. of the average in January to 108 per cent. in November. If we take the means for the six English stations, and the four Scottish stations separately, we have :—

	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.
England.	95	102	100	101	98	97	104	99	103	103	106	104	101
Scotland	92	98	102	101	104	98	105	107	103	98	111	100	100

Here the values for England are improved, for we have a range only from 95 per cent. in January to 106 per cent. in November. If, further, we look over the months at the individual stations, we find

that they are, on the whole, very accordant, and the general conclusion seems justified :—that for English stations the monthly means for the 30 years, 1870-99, are within ten per cent. of the truth.

The Scottish figures are more discordant, ranging from 92 per cent. in January to 111 per cent. in November ; and there is also much more variation between the monthly values at the individual stations. This is not surprising, when we consider the great difference in the character of the rainfall on the Eastern and Western coasts of the kingdom, but it makes it unsafe to generalize. Probably, in the great majority of cases the monthly averages for the 30 years, 1870-99, are within 25 per cent. of the true mean for a long series of years.

The foregoing discussion of the average for the 30 years gives a basis of comparison for the records of the decade, 1890-99, inasmuch, as at no fewer than 69 stations, out of the one hundred selected, the observations are complete for the 30 years. England, 44 ; Wales, 3 ; Scotland, 13 ; and Ireland, 9.

In Table IV. the means for the decade, 1890-99, at the 69 stations, are expressed as percentages of the means at the same stations for the 30 years, 1870-99 ; and by grouping these, we may arrive at a table which will indicate approximately, for any part of the country, the relation which the rainfall of the 1890-99 decade bears to the average of a long period.

The grouping which we have adopted is as follows :—

I. England, S.E. 15 Stations. Camden Square, Reigate, Selling, Eastbourne, Osborne, Alton, Hitchen, High Wycombe, Oxford, Wellingborough, Ely, Chelmsford, Ixworth, Geldeston, Hillington.

II. England, S.W. 13 Stations. Marlborough, Wimborne, Ashburton, Barnstaple, St. Austell, East Harptree, Ross, Kington, Church Stretton, Market Drayton, Burton, Northwick Park, Haverfordwest.

III. England, N.E. 10 Stations. Thornton Res., Horncastle, Worksop, Woodhead, S. Milford, Hull, Malton, Thorpe Perrow, Wolsingham, Ilderton.

IV. England, N.W. 9 Stations. Ormskirk, Holker, Arncliffe, Whitehaven, Unthank Hall, Carlisle, Kendal, Llanystumdwy, Llandudno.

V. Scotland, E. 8 Stations. Drumlanrig Castle, Galashiels, Marchmont House, Loch Leven, Craigton, Braemar, Gordon Castle, Dunrobin Castle.

VI. Scotland, W. 5 Stations. Bothwell Castle, Girvan, Waulk Glen, Loch Drunkie, Glenaladale.

VII. Ireland, S. 5 Stations. Portlaw, Courtown, Carlow, Bray, Ballinasloe.

VIII. Ireland, N. 4 Stations. Belturbet, Armagh, Seaforde, Omagh.

TABLE V.—*Average Rainfall of the Ten Years* 1890–99 *expressed as a Percentage of the Thirty Years* 1870–1899.

Countries.	ENGLAND.				SCOTLAND.		IRELAND.	
Groups.	S.E. I.	S.W. II.	N.E. III.	N.W. IV.	E. V.	W. VI.	S. VII.	N. VIII.
	%	%	%	%	%	%	%	%
January	95	92	99	93	96	89	92	87
February	81	77	87	96	90	95	72	87
March	105	89	91	101	99	105	90	99
April	81	86	84	101	84	101	97	102
May	88	93	100	104	97	95	102	98
June	92	84	99	102	100	107	104	110
July	95	80	85	84	90	91	103	93
August	108	100	99	115	103	114	112	120
September	83	83	80	98	88	100	86	84
October	103	95	99	97	101	95	87	94
November	93	90	89	98	87	105	109	100
December	98	104	96	108	103	109	113	109
First Quarter	94	86	92	97	95	96	85	91
Second ,,	87	88	94	102	94	101	101	103
Third ,,	95	88	88	99	94	102	100	99
Six Summer Months	91	88	91	101	94	101	101	101
Fourth Quarter	98	96	95	101	97	103	103	101
Year	94	90	92	100	95	100	98	99

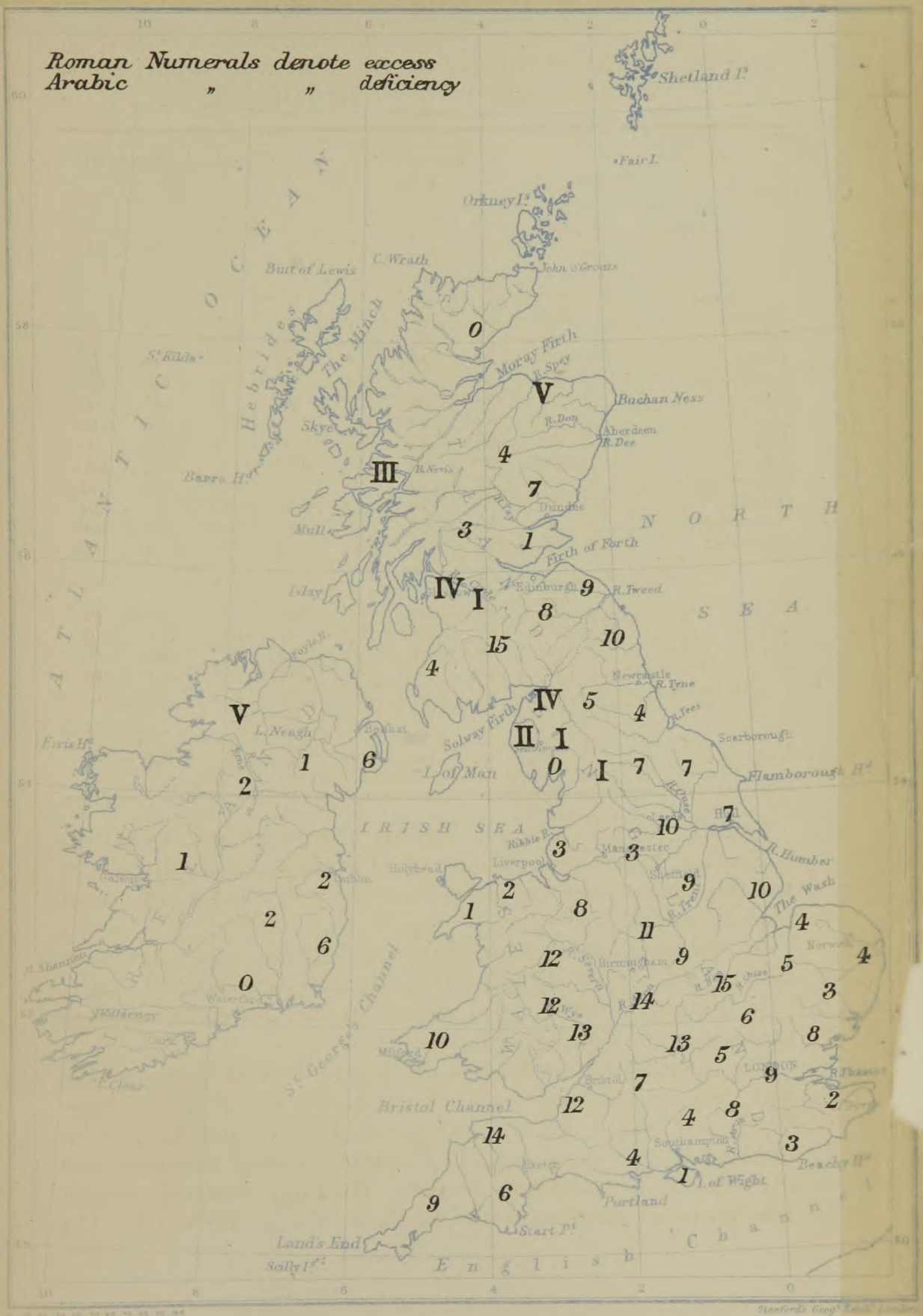
Table V. gives the average values for these groups, and shews that, in England, February was the month of greatest relative deficiency; and that August and December were the only months with more than the average.

In Scotland, March, June, August and December all had more than the average: while July had the greatest deficiency.

In Ireland, June, August, November and December all had excesses; while February was very dry.

The summary for the different quarters of the year shews that the first three months were dry in all districts of the three kingdoms. The second quarter was dry in England S.E., S.W. and N.E., and in Scotland E.; wet elsewhere. The six summer months were wet and dry respectively in the same districts. The third quarter of the year was dry in all districts, except Scotland W. and Ireland S. The

AVERAGE RAINFALL OF THE DECADE 1890-99.



fourth quarter was wet in N.W. England, W. Scotland, and S. Ireland.

All four quarters of the year were dry in England S.E., S.W. and N.E., and in Scotland E.

Taking England as a whole, the first quarter was relatively driest, but, excluding the N.W. district, the second quarter was rather drier.

The yearly averages for the decade can best be studied by reference to the accompanying map, on which is marked in figures the percentage of variation of the average of the decade, 1890-99, from the average of the 30 years, 1870-99.

Where the fall for the decade was above the true average, Roman numerals are used; and where the fall was below it, Arabic numerals are employed. The only areas of excess are in the W. and N.E. of Scotland, in the N.W. of England, and in the N. of Ireland. In the last-named country, the distribution of the 9 stations is poor, and little more can be said than that on the S.E. and N.E. coasts a considerable deficiency is indicated, while over the greater part of the country the variation from the true mean was not great.

In Scotland, again, the representation of the N. and W. of the kingdom is poor; but all the evidence is in favour of an excess of three or four per cent. In the South, the last decade was unquestionably dry, as is shown by the figures 8, 9 and 15 per cent. below the average.

In North Wales and the N.W. of England, the values do not depart greatly from the true mean, the variation being from minus 3 or 4 per cent. to about the same quantity plus. Over almost all the rest of the kingdom the fall in the ten years was deficient; in the S.W., S., S.E. and E., about 5 per cent., or half a year's fall in the decade; in the N.E. more—7 per cent. or upwards. Over an enormous area, roughly 300 miles long by 100 miles wide, stretching right across the country from S.W. to N.E., the fall for the decade shews a deficiency of 10 per cent. or more, and reaching 15 per cent. at Wellingborough. In other words, over a vast area in Central England, little more than eight and a half years' rain fell in the ten years 1890-99.

TABLE IV.—*Average Rainfall of the ten years* 1890-99 *expressed as a Percentage of the* 30 *years* 1870-99.

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
I.	Middlesex.....	London (Camden Square) ...	90	83	101	78	77	75	93	101	80	104	92	100	91
II.	Surrey	Reigate (Nutwood).....	85	75	105	79	82	92	106	95	83	96	101	99	92
,,	Kent	Selling (Harefield)	96	89	115	88	87	103	106	119	84	102	91	91	98
,,	Sussex	Eastbourne (Osborne House)	87	78	100	95	95	99	119	108	101	100	89	91	97
,,	Hants	Osborne (Newbarn Cottage)	94	82	104	93	86	92	103	115	91	105	105	106	99
,,	,, ...	Alton (Ashdell)	89	76	104	81	88	92	94	111	88	107	100	108	96
III.	Herts	Hitchin (Wratten)	92	82	115	70	89	89	88	118	79	107	93	101	94
,,	Bucks	High Wycombe	88	79	103	76	84	90	87	115	90	108	98	107	95
,,	Oxford	Oxford (Magdalen College)..	79	68	83	79	71	76	92	110	77	106	93	93	87
,,	Northampton .	Wellingboro' (Croyland Abbey)	87	76	95	61	83	89	69	100	80	99	88	91	85
,,	Cambridge ...	Ely (Stretham)	106	91	105	72	96	90	99	107	72	105	91	99	95
IV.	Essex.....	Chelmsford (High Street) ...	89	90	107	78	76	99	99	103	84	90	88	100	92
,,	Suffolk	Ixworth (Walsham-le-Willows)	113	89	110	93	104	100	91	111	77	102	93	95	97
,,	Norfolk	Geldeston	110	81	112	96	103	106	90	106	72	103	89	94	96
,,	,, ...	Hillington School	115	82	115	82	101	95	88	97	82	110	90	100	96
V.	Wilts.....	Marlborough (Mildenhall)...	83	77	94	85	84	87	89	104	95	106	98	111	93
,,	Dorset	Wimborne Minster (Chalbury)	90	78	99	88	85	85	92	112	100	104	100	104	96
,,	Devon	Ashburton (Druid House)...	91	73	94	88	95	88	85	108	79	97	98	118	94
,,	,, ...	Barnstaple Athenæum	84	79	89	87	94	82	86	96	81	86	81	93	86
,,	Cornwall	St. Austell (Trevarna)	88	76	80	90	89	82	85	104	77	94	94	112	91
,,	Somerset	E. Harptree (Sherborne Res.)	84	79	88	82	80	83	84	101	87	95	86	102	88
VI.	Hereford	Ross (The Graig)..... ...	89	66	83	78	95	85	71	99	83	103	81	102	87
,,	,, ...	Kington (Lynhales)	106	77	83	85	100	81	69	88	83	87	82	108	88
,,	Salop	Church Stretton (Woolstaston)	101	82	86	82	99	80	74	89	82	90	81	100	88
,,	,, ...	Adderley Rectory	100	81	89	90	103	92	76	98	81	93	93	102	92
,,	Stafford.....	Burton (Rangemoor)	99	88	93	88	92	87	77	92	79	86	91	102	89
,,	Worcester.....	Northwick Park	95	74	95	73	89	75	67	112	75	97	92	89	86
VII.	Leicester	Thornton Reservoir	104	84	93	81	103	83	78	97	80	96	89	108	91
,,	Lincoln	Horncastle Miningsby=Revesby	108	85	101	72	95	97	81	90	69	101	85	98	90
,,	Notts.....	Worksop	100	86	83	83	94	105	91	85	78	95	97	96	91
VIII.	Cheshire	Woodhead Reservoir	98	95	112	94	97	99	93	108	91	94	87	105	97
,,	Lancashire ...	Ormskirk (Rufford)	96	94	89	99	101	95	78	116	93	92	101	106	97
,,	,, ...	Cartmel (Holker)	88	98	101	101	104	102	82	116	100	91	105	112	100
IX.	York, W.R....	South Milford Rectory	95	89	81	80	102	92	78	104	74	98	88	100	90
,,	,, ...	Arncliffe Vicarage	101	101	104	105	97	105	87	113	98	97	92	111	101
,,	York, E.R. ...	Hull, Pearson Park	95	82	85	87	107	111	84	99	74	102	89	97	93
,,	York, N.R. ...	Old Malton	96	85	88	81	107	100	81	101	80	102	94	93	93

TABLE IV.—(continued). *Average Rainfall of the ten years* 1890-99 *expressed as a Percentage of the* 30 *years* 1870-99.

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
IX.	York, N.R. ...	Bedale (Thorpe Perrow) ...	95	91	86	90	101	106	84	97	83	103	88	91	93
X.	Durham.....	Wolsingham.....	102	99	97	92	105	103	88	102	86	101	82	96	96
,,	North'mb'rl'nd	Haltwhistle (Unthank Hall)	82	108	105	88	97	102	80	108	98	99	84	96	95
,,	,,	Ilderton (Lilburn Tower) ...	94	79	87	79	87	98	89	103	87	94	94	79	90
,,	Cumberland ...	Whitehaven (Irish Street)...	84	78	97	103	110	110	91	131	91	99	107	113	102
,,	,,	Carlisle (Cemetery).....	89	111	109	103	114	115	82	117	104	100	101	114	104
,,	Westmoreland	Kendal (Kent Terrace, Ivy Garth)	96	103	104	103	97	91	83	125	108	88	101	111	101
		WALES.													
XI.	Pembroke.....	Haverfordwest (High Street)	92	68	88	96	100	86	80	98	76	94	93	106	90
,,	Carnarvon.....	Llanystumdwy (Talarvor)...	106	85	102	105	112	90	91	102	96	101	96	105	99
,,	,, ...	Llandudno (Warwick House)	96	86	99	98	108	111	81	106	96	104	93	103	98
		SCOTLAND.													
XII.	Dumfries	Durrisdeer (Drumlanrig Cast.)	66	77	91	76	86	96	70	108	73	86	95	102	85
XIII.	Selkirk	Galashiels (Abbotsford Rd.)	86	91	96	74	96	98	84	103	80	100	88	105	92
,,	Berwick.....	Marchmont House	87	93	96	74	96	93	90	103	81	105	80	91	91
XIV.	Lanark	Bothwell Castle	83	103	110	88	102	120	84	108	94	100	104	121	101
,,	Ayr	Girvan (Pinmore)	77	81	98	100	95	111	99	113	89	92	102	102	96
,,	Renfrew	Waulk Glen.....	95	102	112	104	107	116	86	119	98	97	103	111	104
XVI.	Kinross	Loch Leven Sluice	98	96	105	79	90	112	84	110	95	98	97	111	99
,,	Perth.....	Loch Drunkie	87	94	100	105	83	102	87	115	99	86	100	106	97
,,	Forfar	Craigton	88	77	87	86	106	104	86	98	85	98	91	105	93
XVII.	Aberdeen	Braemar	112	77	100	94	89	91	90	97	92	101	88	113	96
,,	Elgin or Moray	Gordon Castle	124	105	104	90	103	114	115	105	97	116	77	105	105
XVIII.	West Inverness	Loch Shiel (Glenaladale) ...	102	95	107	106	88	85	100	113	119	99	110	104	103
XIX.	Sutherland ...	Golspie (Dunrobin Castle)...	108	106	113	102	111	95	101	99	103	103	82	90	100
		IRELAND.													
XX.	Waterford.....	Portlaw (Mayfield).....	93	74	84	98	102	109	102	111	82	91	117	123	100
XXI.	Wexford	Gorey (Courtown House) ...	87	63	81	92	97	104	100	113	83	87	105	112	94
,,	Wicklow	Bray (Fassaroe)	101	67	89	100	104	104	109	107	94	86	108	111	98
,,	Carlow	Carlow (Browne's Hill)	93	70	102	92	110	107	99	109	83	87	109	108	98
XXII.	Galway	Ballinasloe	87	87	96	101	96	96	106	118	87	85	108	110	99
XXIII.	Cavan.....	Belturbet (Red Hills).....	83	89	98	110	96	99	99	120	87	86	98	105	98
,,	Armagh.....	Armagh Observatory	86	88	104	95	105	115	91	120	84	91	99	107	99
,,	Down.....	Seaforde	82	73	79	93	89	118	87	117	73	99	99	112	94
,,	Tyrone	Omagh (Edenfel).....	96	100	114	112	101	108	95	123	91	101	104	112	105

Average Rainfall of the Ten Years 1890-99.

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
I.	Middlesex.....	London (Camden Square) ...	1·71	1·35	1·63	1·32	1·33	1·58	2·30	2·36	1·84	2·96	2·26	2·14	22·78
II.	Surrey	Reigate (Nutwood)	2·28	1·54	2·11	1·51	1·51	1·97	2·95	2·31	2·24	3·41	3·32	2·70	27·85
,,	Kent	Selling (Harefield)	2·39	1·73	2·32	1·64	1·65	2·22	2·55	2·75	2·21	3·78	3·05	2·54	28·83
,,	Sussex	Eastbourne (Osborne House)	2·39	1·65	2·01	1·78	1·48	1·79	2·80	2·60	3·12	4·15	3·29	2·90	29·96
,,	Hants	Osborne (Newbarn Cottage).	2·52	1·69	1·75	1·49	1·34	1·56	2·27	2·67	2·39	3·70	3·52	2·97	27·87
,,	,, ...	Alton (Ashdell)	2·68	1·89	2·30	1·58	1·78	1·96	2·49	3·16	2·59	4·13	3·79	3·50	31·85
III.	Herts.....	Hitchin (Wratten)	1·67	1·26	1·76	1·13	1·65	1·68	2·24	2·67	1·79	2·92	2·40	2·08	23·25
,,	Bucks	High Wycombe	1·92	1·41	1·61	1·17	1·32	1·66	1·86	2·42	2·16	3·11	2·57	2·48	23·69
,,	Oxford	Oxford (Magdalen College) .	1·51	1·11	1·15	1·26	1·22	1·58	2·31	2·55	1·71	2·95	2·20	1·85	21·40
,,	Northampton .	Wellingboro' (Croyland Abbey)	1·69	1·28	1·50	1·10	1·57	1·77	1·91	2·26	1·88	2·64	2·05	1·90	21·55
,,	Cambridge ...	Ely (Stretham)	1·34	1·01	1·17	1·03	1·70	1·84	2·72	2·59	1·60	2·55	1·90	1·51	20·96
IV.	Essex.....	Chelmsford (High Street) ...	1·44	1·28	1·59	1·06	1·15	1·89	2·32	2·24	1·80	2·40	2·06	1·99	21·22
,,	Suffolk	Ixworth (Walsham-le-Willows)	1·87	1·41	1·90	1·52	1·97	2·05	2·71	2·49	2·09	2·79	2·40	1·97	25·17
,,	Norfolk.....	Geldeston.....	1·70	1·09	1·72	1·46	1·74	1·85	2·35	2·16	1·75	2·88	2·36	1·91	22·97
,,	,, ...	Hillington School	2·18	1·37	1·90	1·37	1·82	2·10	2·65	2 69	2·11	3·21	2·48	2·25	26·13
V.	Wilts.....	Marlborough (Mildenhall)...	2·16	1·64	1·77	1·69	1·57	1·91	2·47	2·79	2·45	3·57	3·20	3·00	28·22
,,	Dorset	Wimborne Minster (Chalbury)	2·57	1·78	1·91	1·87	1·53	1·80	2·19	2·77	2·82	3·81	3·56	3·21	29·82
,,	Devon	Ashburton (Druid House)...	5·25	3·40	3·59	2·91	2·48	2·49	2·83	4·11	3·19	6·12	6·08	7·52	49·97
,,	,, ...	Polapit Tamar [Launceston]...	3·34	2·33	2·18	2·15	2·12	1·76	2·66	3·64	3·09	4·96	4·05	4·51	36·79
,,	,, ...	Barnstaple Athenæum	2·83	2·23	2·08	1·88	1·97	1·85	2·84	3·30	2·88	4·21	3·24	3·79	33·10
,,	Cornwall	St. Austell (Trevarna)	4·12	2·94	2·38	2·63	2·10	2·15	3·03	4·04	3·23	5·08	4·91	6·14	42·75
,,	Somerset	E. Harptree (Sherborne Reservr.)	3·26	2·38	2·40	2·26	2·06	2·10	2·92	3·72	3·13	4·26	3·70	4·20	36·39
VI.	Hereford	Ross (The Graig)...	2·38	1·43	1·45	1·52	2·01	1·92	2·00	2·59	2·24	3·17	2·38	2·52	25·61
,,	,, ...	Kington (Lynhales)	3·09	2·01	1·76	1·73	2·44	2·02	1·86	2·76	2·21	3·39	2·86	3·37	29·50
,,	Salop.....	Church Stretton (Woolstaston)	2·84	1·86	1·74	1·76	2·60	1·96	1·97	2·87	2·26	3·60	2·57	2·93	28·96
,,	,, ...	Adderley Rectory	2·21	1·44	1·55	1·61	2·28	2·45	2·19	2·93	2·12	3·02	2·36	2·53	26·69
,,	Stafford.....	Burton (Rangemoor)	2·09	1·45	1·48	1·63	2·04	2·32	2·10	2·68	2·08	2·63	2·11	2·35	24·96
,,	Worcester.....	Northwick Park	2·20	1·67	1·56	1·47	1·78	1·61	1·77	2·88	2·06	2·98	2·95	2·31	25·24
VII.	Leicester	Thornton Reservoir	1·99	1·34	1·38	1·45	2·04	1·96	2·02	2·70	2·04	2·81	2·08	2·36	24·17
,,	Lincoln	Horncastle Minningsby-(Revesby)	1·84	1·38	1·42	1·18	1·61	1·85	1·97	2·18	1·67	3·05	1·98	2·10	22·23
,,	Notts.....	Worksop	1·73	1·35	1·28	1·40	1·88	2·33	2·28	1·94	1·70	2·60	2·03	1·93	22·45
VIII.	Cheshire	Woodhead Reservoir	3·81	3·19	4·05	2·69	3·06	3·50	3·90	4·86	4·22	5·35	4·05	4·94	47·62
,,	Lancashire ...	Ormskirk (Rufford)	2·56	1·90	1·97	1·74	2·13	2·28	2·62	4·16	3·17	3·65	3·19	3·26	32·63
,,	,, ...	Cartmel (Holker)	3·45	2·87	3·12	2·22	2·54	2·91	3·22	5·16	4·40	4·50	4·54	4·76	43·69
IX.	York W.R. ...	South Milford Rectory	1·70	1·46	1·41	1·43	1·87	2·19	2·17	2·66	1·75	2·87	1·90	2·16	23·57

Average Rainfall of the Ten Years 1890-99.—(continued).

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
IX.	York, W.R. ...	Arncliffe Vicarage	6·42	4·90	5·23	3·47	3·25	3·88	4·32	6·15	5·04	6·37	5·51	7·13	61·67
,,	York, E.R. ...	Hull (Pearson Park)	1·72	1·52	1·52	1·50	2·08	2·35	2·10	2·78	1·77	3·32	2·17	2·29	25·12
,,	York, N.R. ...	Old Malton	1·82	1·45	1·54	1·37	2·01	2·14	2·11	2·77	1·84	3·15	2·36	2·23	24·79
,,	,, ,, ...	Bedale (Thorpe Perrow) ...	1·96	1·62	1·64	1·60	1·85	2·44	2·26	2·62	1·80	3·08	2·17	2·17	25·21
X.	Durham.....	Wolsingham.....	2·96	2·39	2·69	2·23	2·49	2·32	2·72	2·98	2·28	4·06	2·90	3·24	33·26
,,	N'rthumb'rl'nd	Haltwhistle (Unthank Hall)	2·37	2·58	2·75	1·78	2·06	2·63	2·81	4·11	3·19	3·56	2·75	3·25	33·84
,,	,,	Ilderton (Lilburn Tower) ...	1·54	1·50	1·91	1·61	1·70	1·81	2·39	2·87	2·41	2·97	3·25	2·21	26·17
,,	Cumberland ...	Whitehaven (Irish Street)..	3·04	2·27	2·68	2·39	2·70	2·93	3·14	5·39	3·49	4·62	4·81	4·49	41·95
,,	,, ...	Carlisle (Cemetery).....	2·23	2·08	2·12	1·77	2·23	2·70	2·88	4·70	3·30	3·18	2·87	2·98	33·04
,,	,, ..	Kendal (Kent Terrace, Ivy Garth)	5·00	3·87	3·98	2·52	2·81	2·73	3·61	6·09	4·96	4·68	4·90	5·89	51·04
		MONMOUTH, WALES, AND THE ISLANDS.													
XI.	Glamorgan ...	Neath	4·42	3·15	2·85	2·96	2·68	2·56	3·47	5·31	3·79	5·91	4·71	5·47	47·28
,,	Pembroke.....	Haverfordwest (High Street)	4·70	2·53	2·66	2·55	2·54	2·24	2·97	3·96	3·20	5·28	5·02	5·54	43·19
,,	,, ...	Castle Malgwyn [Llechryd]	4·34	2·35	2·72	2·16	2·51	1·77	2·83	3·44	2·81	5·90	4·75	5·27	40·85
,,	Radnor	Rhayader (Nantgwilt)...*o.g.*	6·20	4·17	4·51	3·15	2·96	2·79	3·58	5·01	4·29	6·59	6·22	7·35	56·82
,,	Carnarvon.....	Llanystumdwy (Talarvor)...	3·26	1·97	2·50	2·01	2·38	2·12	2·77	3·43	3·22	4·17	3·91	3·80	35·54
,,	,, ...	Llandudno (Warwick House)	2·46	1·70	1·96	1·78	2·00	2·21	2·13	3·04	2·80	4·25	3·13	3·03	30·49
		SCOTLAND.													
XII.	Kirkcudbright	Gatehouse (Cally)	3·74	3·34	3·37	2·76	3·06	3·28	3·45	5·24	3·80	4·49	5·38	5·99	47·90
,,	Dumfries	Langholm (Ewes School) ...	4·86	4·18	3·81	2·29	2·66	3·01	3·71	5·92	4·41	4·76	6·02	6·56	52·19
,,	,, ...	Durrisdeer (Drumlanrig Cast.)	3·32	2·93	2·65	1·59	2·04	2·58	2·57	4·23	2·82	3·84	4·68	4·61	37·86
XIII.	Selkirk	Galashiels (Abbotsford Road)	2·41	2·35	2·45	1·51	1·94	2·34	2·64	3·43	2·18	3·37	3·10	3·54	31·26
,,	Berwick	Marchmont House	2·16	2·11	2·42	1·69	2·30	2·41	3·11	3·65	2·54	3·89	2·83	2·75	31·86
XIV.	Lanark	Bothwell Castle	2·14	1·96	2·07	1·23	1·97	2·64	2·44	3·45	2·49	2·62	2·97	3·37	29·35
,,	Ayr	Girvan (Pinmore)	3·80	3·22	3·39	2·46	2·60	3·27	3·58	4·89	3·97	5·01	5·43	5·36	46·98
,,	Renfrew	Waulk Glen.....	4·92	3·74	3·88	2·41	2·85	3·33	2·94	5·09	4·18	4·50	5·37	5·79	49·00
XV.	Argyll	Inverary Castle	7·94	6·57	7·05	3·86	3·30	4·27	5·38	7·16	8·03	6·86	8·54	9·71	78·67
,,	,, ...	Appin (Airds)	5·09	4·13	4·59	2·53	3·08	3·21	4·23	5·72	6·36	4·78	5·87	5·97	55·56
,,	,, ...	Jura (Bay of Small Isles) ...	5·83	4·64	5·60	3·27	3·04	4·43	4·42	5·64	7·21	5·44	6·97	7·72	64·21
,,	,, ...	Mull (Quinish).....	5·08	3·77	4·91	2·83	2·84	3·21	4·40	5·28	5·63	5·32	6·43	6·60	56·30
XVI.	Kinross	Loch Leven Sluice	3·25	2·71	2·75	1·58	2·10	2·70	2·61	4·08	2·80	3·53	3·61	4·11	35·83
,,	Perth.....	Loch Drunkie	6·13	5·01	4·95	3·25	2·91	4·14	3·80	6·62	5·30	5·17	6·63	7·44	61·35
,,	,, ...	Lochearnhead (Ardvorlich)..	6·52	4·70	5·24	4·55	3·21	3·37	3·45	5·45	4·63	5·98	8·13	7·42	62·65

Average Rainfall of the Ten Years 1890-99.—(continued).

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
XVI.	Forfar	Craigton	2·64	2·25	2·25	2·22	2·65	2·78	3·09	4·03	2·69	3·48	3·21	3·64	34·93
XVII.	Aberdeen	Braemar	3·25	2·07	2·42	2·06	2·03	2·23	2·61	3·72	3·00	4·09	3·47	3·56	34·51
,,	,, ...	Cromar (Logie Coldstone Manse)	2·38	1·69	2·36	1·70	2·04	2·21	2·65	3·24	2·59	3·66	2·47	2·61	29·60
,,	Elgin or Moray	Gordon Castle	2·42	1·84	2·29	1·49	2·21	2·46	3·61	3·51	2·93	3·88	2·21	2·93	31·78
XVIII.	West Ross ...	Applecross Gardens	6·01	3·93	4·78	2·80	3·37	2·67	4·40	4·85	6·04	7·26	6·16	6·27	58·54
,,	,, ...	Strathconan (Dalbreac)	5·82	4·86	5·11	3·34	2·98	2·94	3·43	3·96	4·69	5·26	4·87	6·36	53·62
,,	,, ...	Braemore House	6·52	5·07	6·26	3·46	3·23	3·11	4·45	4·46	5·83	6·96	6·06	9·07	64·48
,,	WestInverness	Loch Shiel (Glenaladale) ...	12·13	8·54	9·87	5·45	4·68	4·93	7·00	9·06	11·43	10·67	12·36	12·73	108·85
,,	,,	Glenquoich	13·33	9·22	11·00	5·22	4·62	4·75	6·75	8·33	11·98	10·82	12·37	14·05	112·44
,,	East Inverness	Fort Augustus.....	5·49	4·25	4·08	2·05	2·03	2·40	3·09	3·73	4·64	4·66	4·59	5·84	46·85
XIX.	Sutherland ...	Golspie (Dunrobin Castle)...	2·85	2·56	2·75	1·81	2·14	1·94	2·72	2·53	2·67	3·36	2·67	3·09	31·09
,,	Caithness	Watten (H.R.S.)	2·00	1·70	1·95	1·30	2·05	1·78	2·85	2·61	2·90	3·57	2·55	2·77	28·03
		IRELAND.													
XX.	Cork	Cork (Queen's College)	4·01	2·78	2·43	2·88	2·11	2·49	2·31	3·99	2·53	4·10	4·60	6·43	40·66
,,	Kerry	Kenmare (Derreen).....	6·97	5·37	4·47	5·28	3·28	3·53	3·68	5·61	4·11	6·33	7·18	10·35	66·16
,,	Waterford ...	Portlaw (Mayfield).....	4·20	2·77	2·29	2·91	2·50	2·79	3·29	4·30	2·61	3·90	4·81	5·81	42·18
,,	,, ...	Glenam [Clonmel]	4·28	2·59	2·52	2·75	2·32	2·62	3·07	4·26	2·60	3·74	4·68	5·46	40·89
,,	Tipperary	Nenagh (Castle Lough)	3·50	2·47	2·69	2·55	2·35	2·46	3·20	4·75	3·13	3·05	4·42	4·85	39·42
,,	Clare	Miltown Malbay.....	3·65	2·94	3·06	2·81	2·48	3·15	3·53	5·82	3·91	4·07	4·67	5·21	45·30
XXI.	Wexford	Gorey (Courtown House) ...	3·08	1·87	1·85	2·19	2·07	2·53	2·86	3·77	2·37	3·42	3·69	3·92	33·62
,,	Wicklow	Bray (Fassaroe)	3·82	2·40	2·63	2·85	2·77	2·61	3·14	3·58	2·83	4·05	4·71	4·29	39·68
,,	Carlow	Carlow (Browne's Hill)	2·93	1·84	2·30	2·16	2·58	2·48	2·98	3·84	2·33	3·04	3·43	3·74	33·65
,,	King's County	Parsonstown (Birr Castle)...	2·55	1·81	2·21	2·26	2·28	2·41	2·93	4·61	2·51	2·62	3·34	3·38	32·96
,,	Westmeath ...	Mullingar (Belvedere)	2·74	2·28	2·39	2·42	2·62	2·84	3·31	5·02	2·77	2·73	3·62	3·76	36·50
,,	Louth	Greenore	2·30	1·88	1·82	2·26	1·94	2·69	2·80	4·14	2·25	2·79	3·07	3·39	31·33
XXII.	Galway	Ballinasloe	3·03	2·15	2·34	2·35	2·38	2·59	3·50	4·66	2·75	2·94	3·90	3·99	36·58
,,	,, ...	Tuam (Gardenfield)	3·46	2·79	3·03	2·54	2·35	2·79	3·43	5·25	3·01	3·57	4·47	5·16	41·85
,,	Mayo	Crossmolina (Enniscoe)	4·92	3·87	4·15	3·23	2·93	3·09	3·69	5·07	3·80	5·41	5·94	6·50	52·60
XXIII.	Cavan	Belturbet (Red Hills)	2·62	2·12	2·41	2·45	2·18	2·68	3·59	4·37	2·63	2·76	3·06	3·55	34·42
,,	Armagh.....	Armagh Observatory	2·22	1·81	2·10	1·92	2·18	2·84	2·95	3·95	2·45	2·75	2·79	3·01	30·97
,,	Down.....	Seaforde	2·96	2·16	2·03	2·42	2·18	3·21	2·97	4·12	2·46	3·79	3·90	4·07	36·27
,,	Antrim	Ballymena (Harryville).....	3·30	2·62	2·75	2·47	2·45	3·37	3·39	4·42	3·04	3·73	3·80	4·18	39·52
,,	Londonderry..	Londerry (Creggan Reservoir)...	3·41	2·72	3·13	2·41	2·64	3·10	3·59	4·51	3·68	4·14	3·73	4·30	41·36
,,	Tyrone	Stewartstown (The Square).	2·77	2·34	2·35	2·45	2·58	3·58	3·03	4·01	2·73	3·28	3·28	3·74	36·14
,,	,, ...	Omagh (Edenfel).....	3·22	2·50	2·81	2·52	2·46	3·11	3·21	4·95	3·23	3·75	3·67	4·23	39·66

RECORDS OF EVAPORATION.

THIS branch of observation is receiving steadily increasing attention, for while in the 1897 volume we were able to print only four records, for last year we have eight, Mr. Baxendell's observations at Downholland being complete for the year.

Not only is the number of returns increasing, but they are also becoming more uniform, for the observer at Revesby has substituted a tank of the standard size (6 ft. × 6 ft. × 2 ft.) for the one previously in use. Thus the apparatus is now identical at five out of the eight stations. At Isfield Place the record was interrupted during part of November and December, and the values have been estimated.

It will be noticed that the standard tank at Revesby gives the smallest record in the table; and the observer remarks that he had the old tank (4 ft. × 4 ft.) in use during part of the year, and that it gave a much larger evaporation in June, July and August than the new tank. We confess that we do not understand the smallness of this record, unless the new tank is not freely exposed to the wind.

At the foot of the table we have given the difference between the 1898 and 1899 values, the latter year showing a considerable excess at every station where the apparatus is unchanged.

Referring to the Camden Square table, we see that 1899 had the greatest evaporation in any year of the 15 observed, the excess being great in the four months, June to September; while the value for three of those months—July, August and September—is also unprecedented. On the other hand, if we turn to the record for back years at Croydon, in *British Rainfall*, 1897, we find that 1890, 1891 and 1892 all gave a greater evaporation than 1899. In those years, however, the position was not the same, and this may to some extent vitiate the comparison.

If we arrange the excesses of 1899 over 1898 in their order of magnitude, we have :—

Station.	County.	Excess of 1899.	Evaporation 1899.	Rainfall 1899.
Camden Square.....	*Middlesex*...	4·93 in.	18·88 in. (1)	22·54 in. (1)
Southwold	*Suffolk*	4·23 ,,	22·01 ,, (2)	22·94 ,, (3)
Otterbourne	*Hants*.....	3·87 ,,	23·40 ,, (5)	22·87 ,, (2)
Isfield Place	*Sussex*.....	3·70 ,,	22·97 ,, (4)	24·09 ,, (4)
Kennick	*Devon*.....	2·58 ,,	22·85 ,, (3)	41·33 ,, (5)

These excesses shew no marked agreement with the region in which the total rainfall of 1899 was most deficient, nor with the region in which the fall of the three summer months was most deficient. They are, no doubt, controlled by other meteorological factors, which scarcely come within the scope of *British Rainfall.*

The last column suggests that the excess of evaporation is directly dependent upon the total rainfall of the year, but such a simple solution cannot be accepted, even if we assume that roughly the total rainfall is in inverse ratio to the amount of bright sunshine.

We think the subject is at present too much in its infancy to justify an attempt to deal with the question of geographical distribution.

Evaporation at Camden Square, 1885–99.

	Jan. in.	Feb. in.	March. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Total. in.
1885.	·20	·38	·86	1·71	1·98	2·77	3·29	2·25	1·13	·77	·17	·11	15·62
1886.	·23	·13	·53	1·59	1·78	2·93	3·12	1·86	1·46	·63	·27	·12	14·65
1887.	+·07	·29	·76	1·72	1·79	3·68	3·76	2·54	1 25	·78	·21	·07	16·78
1888.	·07	·37	·48	1·16	2·71	2·24	1·44	1·90	1·17	·60	·43	·03	12·60
1889.	·03	·18	·62	1·07	1·76	2·97	2·34	1·96	1·52	·42	·29	+·13	13·03
1890.	·08	·19	·50	1·44	2·63	2·14	2·33	2·02	1·27	·79	·31	*·04*	13·74
1891.	*·03*	·16	·73	1·35	1·66	2·83	2·34	1·67	1·00	·62	·20	*·22*	12·81
1892.	·05	·09	·60	1·88	2·65	3·05	2·84	2·20	1·01	·36	·02	*·20*	14·95
1893.	+*·03*	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.	+·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
1895.	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26	+·14	15·73
1898.	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
Mean	·09	·26	·65	1·48	2·34	2·85	2·88	2·16	1·21	·58	·21	·06	14·77
1899.	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
Diff.	—·05	+·02	—·13	—·24	·00	+·82	+1·15	+1·62	+·80	—·13	+·20	+·05	+4·11

EVAPORATION IN 1899.

	London, Camden Sq.	*Surrey*, Duppas House, Croydon	*Sussex*, Isfield Place	*Hampshire*, Otterbourne	*Suffolk*, Southwold	*Devon*, Kennick, Christow	*Lincoln*, Revesby Water Works	*Lancashire*, Downholland.
Latitude ...	51° 32′ 30″ N.	51° 22′ 5″ N.	50° 56′ 50″ N.	51° 0′ 28″ N.	52° 20′ N.	50° 38′ 30″ N.	53° 9′ N.	53° 34′ 38″ N.
Longitude.	0 8 0 W.	0 6 13 W.	0 3 40 E.	1 19 55 W.	1 41 E.	3 41 20 W.	0 3 W.	3° 1′ 12″ W.
Altitude ...	111 ft.	158 ft.	50 ft.	111 ft.	44 ft.	842 ft.	130 ft.	13 ft.
Observer...	late G. J. Symons	BaldwinLatham.C.E.	Major King	W. Matthews, C.E.	A. C. Herbert	W. Ingham, C.E.	J. Shaw	J. Baxendell.
Size of tank	6 ft. × 6 ft.	1 ft. diameter.	4 ft. × 4 ft.	6 ft. × 6 ft.	4 ft. × 4 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.
Capacity (galls.)	450	5	200	450	200	450	450	450
Height of lip above ground	3 inches	4 inches	1 inch	3 inches	1 inch	3 inches	—	2 inches
	in.	in.	in.	in.	in.	in.	in.	in.
January ...	·04	·34	·16	·01	·47	·03	·19	·11
February..	·28	·35	·58	·31	·46	·40	·30	·38
March.....	·52	·72	1·16	·99	·61	1·25	·76	1·20
April	1·24	1·49	1·48	1·48	2·17	1·68	1·01	2·19
May.....	2·34	2·29	2·83	3·04	3·13	2·52	1·89	2·71
June	3·67	3·34	3·53	4·55	3·43	4·41	3·22	4·06
July	4·03	3·74	4·50	4·86	3·38	4·63	2·73	3·63
August ...	3·78	3·34	4·52	4·35	3·73	4·23	2·91	3·27
September	2·01	1·79	2·46	2·43	2·37	2·45	1·92	2·72
October ...	·45	·71	·95	·65	1·03	·90	·84	1·19
November.	·41	·51	(·65)	·36	·62	·17	·16	·81
December.	·11	·16	(·15)	·37	·61	·18	·10	·23
Year, 1899	18·88	18·78	(22·97)	23·40	22·01	22·85	16·03	22·50
,, 1898	13·95	16·38	19·27	19·53	17·78	20·27	20·17	...
Excess 1899	4·93	2·40	3·70	3·87	4·23	2·58	...	...

Observations made at Croydon by Mr. Baldwin Latham, M.Inst.C.E.

1899	Evaporation from 12 in. Evaporator floating in Water.	Condensation in 12 in. Evaporator floating in Water.	Average daily Temperature of Water at 9 a.m. in 12 in. Evaporator floating in Water.	5 in. Evaporator freely exposed in Air.	Average daily Temperature of Water at 9 a.m. in 5 in. Evaporator freely exposed in Air.	Temperature of the Dew Point at 9 a.m.
	in.	in.	Deg. F.	in.	Deg. F.	Deg. F.
Jan.....	·37	·03	38·9	·74	39·3	38·2
Feb. ...	·38	·03	37·9	1·04	38·8	36·7
March...	·72	—	36·5	1·84	37·3	35·1
April ...	1·49	—	48·5	2·44	49·9	41·2
May ...	2·29	—	54·4	3·80	56·7	44·8
June ...	3·34	—	64·0	5·64	67·8	51·8
July ...	3·74	—	68·8	5·98	71·0	56·0
August..	3·34	—	66·8	5·75	70·3	57·2
Sept. ...	1·79	—	58·9	2·68	59·7	50·3
Oct.....	·72	·01	48·0	1·04	46·5	45·4
Nov. ...	·51	—	45·8	·81	45·1	44·4
Dec... ...	·19	·03	35·1	·44	35·9	32·3
Totals.....	18·88	·10	603·6	32·20	618·3	533·4
Averages..	...	...	50·3	...	51·5	44·5

COMPARISON OF GERMAN & ENGLISH RAIN GAUGES,

AND OF

MR. SIDEBOTTOM'S SNOW GAUGE

AT CAMDEN SQUARE, N.W.

1899	Ordinary English 8 in. gauge.	Ordinary 8 in. gauge reduced by 5 per cent.	Dr. Hellmann's Gauges.				Sidebottom's Snow Gauge.	
			No. 1. N.E.	No. 2. S.W.	Difference from reduced English.		Total.	Difference from Reduced 8 inch.
					No. 1.	No. 2.		
	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	2·52	2·39	2·37	2·41	—·02	+·02	2·33	—·06
Feb.	2·00	1·90	1·87	1·87	—·03	—·03	1·83	—·07
Mar.	·50	·47	·40	·42	—·07	—·05	·40	—·07
April	2·64	2·51	2·43	2·46	—·08	—·05	2·40	—·11
May	1·38	1·31	1·23	1·27	—·08	—·04	1·26	—·05
June	1·49	1·42	1·42	1·43	·00	+·01	1·44	+·02
July	1·45	1·38	1·15	1·21	—·23	—·17	1·38	·00
Aug.	·70	·66	·56	·56	—·10	—·10	·64	—·02
Sep.	2·65	2·52	2·46	2·49	—·06	—·03	2·50	—·02
Oct.	2·03	1·93	1·96	1·98	+·03	+·05	1·94	+·01
Nov.	4·13	3·92	3·97	3·99	+·05	+·07	4·14	+·22
Dec.	1·05	1·00	·97	·99	—·03	—·01	·96	—·04
Total 1899	22·54	21·41	20·79	21·08	—·62	—·33	21·22	—·19
1898	17·69	16·82	16·43	16·57	—·39	—·25	16·59	—·23
1897	22·86	21·72	21·49	21·58	—·23	—·14	21·61	—·11
1896	23·52	22·34	with x 21·45	22·08	—·89	—·26	21·95	—·39
1895	21·47	20·39	20·05	20·62	—·34	+·23	20·31	—·08
1894	27·94	26·55	26·01	27·11	—·54	+·56	26·48	—·07
1893	19·80	18·82	18·22	18·82	—·60	·00	18·58	—·24
1892	22·61	21·48	21·30	21·81	—·18	+·33		

The above table is precisely similar to that in previous years, and it seems doubtful whether it will be worth while to continue to print it. It gives no clear indication that the removal of the pear tree referred to in the 1898 volume has at all affected the amount recorded. This is important; for if the pear tree had no effect on these gauges, still less can it have affected the standard gauge, which was much further from it.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28′ 38″ N. Long., 0° 0′ 0″

Communicated by W. H. M. CHRISTIE, ESQ., C.B., M.A., F.R.S., Astronomer Royal.

1899	No. of Rainy Days.	MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
		Osler's Anemometer		On roof of Octagon Room.	On roof of Magnetic House.	On roof of Photographic Thermometer Shed.	Gauges partly sunk in the ground.		
		Self-registering Gauge.	Second Gauge.						
Height above Ground.	...	50ft. 8in.	50ft. 8in.	38ft. 4in.	21ft. 6in.	10ft. 0in.	5in.	5in.	5in.
Height above Mean Sea Level.	...	205ft.	205ft.	193ft.	176ft.	165ft.	155ft.	155ft.	155ft.
		in.	in.	in.	in.	in.	in.	in.	in.
January	18	1·242	1·182	1·747	1·980	2·345	2·528	2·385	2·507
February.....	12	1·264	1·239	1·489	1·685	1·791	1·927	1·778	1·831
March	10	·209	·204	·414	·469	·599	·607	·548	·595
April.....	20	1·661	1·616	2·130	2·524	2·910	2·999	2·758	2·904
May.....	12	1·155	1·187	1·347	1·585	1·700	1·650	1·586	1·658
June	6	·560	·500	·641	·741	·765	·758	·766	·758
July.....	8	1·312	1·380	1·578	1·709	1·772	1·738	1·729	1·738
August	6	·241	·199	·293	·342	·370	·354	·354	·361
September	15	1·388	1·375	1·732	1·966	2·125	2·233	2·120	2·145
October	10	1·382	1·349	1·889	2·036	2·282	2·343	2·286	2·310
November	9	2·738	2·743	3·180	3·326	3·680	3·730	3·711	3·690
December	15	·786	·765	1·033	1·174	1·356	1·465	1·393	1·388
Sums.....	141	13·938	13·739	17·473	19·537	21·695	22·332	21·414	21·885
No. of Gauge ...	...	1	2	3	4	5	6	7	8

The monthly record terminates at midnight on the last day of the month.
A rainy day is considered to be one on which 0·005 in., or more, is collected in gauge No. 6.
Of the ground gauges 6, 7, and 8, No. 6 is taken as standard, No. 7 is the old monthly gauge, and No. 8 is a gauge added in 1881.
On January 1 the standard gauge was shifted to the Magnetic Pavilion enclosure, 330 yards East of its former position, and at about the same elevation above mean sea level.

[A rigorous examination of the records for the last 18 years does not indicate that the removal of the standard gauge has had any effect on the amount recorded.—ED. *Brit. Rain.*]

1900, January 18.

THE STAFF OF OBSERVERS.

THE present volume shows no falling off in our numbers, but a rather more than average increase, and with the close of the century we have reached the high water mark of 3,500 records. The gain is naturally greatest in England, but in none of the four countries is there a loss, and although in the Sister Isle the increase is small, still there is an increase.

The most important losses are those due to the cessation of long records consequent on the death of the observers, rather than to deterioration of geographical distribution.

Among the gains there are many of great importance, and not least in Ireland. The additional stations in County Clare were much wanted, and those in Mayo—a county always poorly represented—were, if possible, even more needed ; among them we are glad to welcome Doo Castle, from whence returns were received many years ago. The observations at the Vartry Waterworks in County Wicklow come from a district for which there was little information.

In Wales the value of Mr. Gethin Jones's records in the district on the eastern slopes of Snowdon is only equalled by the difficulty of making the observations.

Number of perfect rainfall records published in the volumes of British Rainfall for the undermentioned years.

Years.	England.	Wales.	Scotland.	Ireland.	Gross Total.	Increase over previous year.
1860...	163	5	—	—	168	—
1861...	334	9	109	20	472	—
1871...	1038	88	311	67	1504	—
1881..	1548	131	313	153	2145	—
1891...	2091	168	359	181	2799	23
1892...	2113	178	367	192	2850	51
1893...	2205	193	389	200	2987	137
1894...	2269	184	395	195	3043	56
1895...	2304	196	398	186	3084	41
1896...	2427	209	402	181	3219	135
1897...	2492	223	419	184	3318	99
1898...	2545	237	436	186	3404	86
1899...	2615	252	446	188	3501	97
Difference from 1898—						
Increase	70	15	10	2	97	97
Decrease	—	—	—	—	—	

MIDDLESEX (67).

ABSENT RECORDS.	INSERTIONS.
Westminster (Spring Gardens)—No. 3 *Gauge under repair.*	Twickenham (Sewage Works, M).
London (Hamilton Terrace)—*Record ceased.*	Hampstead (Branch Hill Lodge).
Barnet (Trent Park)—*Record accidentally destroyed.*	Stoke Newington (Cazenove Road).
	Enfield (Carisbrooke).

SURREY (144).

Farnham (Hampton Lodge)—*No observations.*	Chiddingfold, *Snowdon g.*
Guildford (Listoke)—*Observer moved.*	Godalming (Tilthams).
Red Hill (Trevor Lodge)—*Record ceased.*	Farnham (Dippen Hall).
Send (Woodhill)—*Observer moved.*	,, (Short Heath Lodge).
Pyrford Vicarage—*No reply.*	Guildford (Baskerville).
Windlesham (Woodside)—*Observer moved.*	High Clandon.
Chertsey (Flutters Hill)—*No observations.*	Betchworth (The Holmes).
,, (Burley Orchard)—*No reliable record.*	Frimley Green (Ridgemount).
East Molesey (Palace Road)—*Observer moved.*	Ashtead (Meadow Bank).
Richmond (Ormond Lodge)—*Observer moved.*	Banstead (Burgh Heath Res.).
	Sutton (Water Works).
	Croydon (Windmill Road).
	Morden.

KENT (133).

Wittersham—*No reply.*	Tenterden (West Cross).
Tunbridge Wells (Camden Pk.)—*Rec. ceased.*	Hythe (Sandling Park).
Horsmonden (Sprivers)—*Not received.*	Folkestone (Lower Standen, Caple).
Elham Vicarage—*No reply.*	Acrise (Great Shuttlesfield).
Ashford (Westwell, Monkery)—*Record ceased.*	Deal and Walmer W.W. (5-*in. g.*).
Maidstone Hospital—*Observer moved.*	Maidstone (Long Rede, Barming).
West Malling (Wistaria House)—*No reply.*	,, (The Vicarage).
North Foreland—*Record ceased.*	Westerham (Hill Estate).
Beckenham (Cedars Road)—*Record ceased.*	Knockholt (Kent Waterworks).
Sydenham (Elmfield)—*Observer moved.*	Sheppey (Newhouse, Leysdown).
Rochester (Lodge Hill, Cooling)—*Obs. moved.*	Southfleet (Kent Waterworks).
Blackheath Park (Elmsdale)—*Obs. moved.*	Sidcup (Park Road).
	Beckenham (Wickham Road).
	,, (Oakwood Avenue).
	Rochester (Cliffe Lodge).

WEST SUSSEX (38).

Arundel (High Street)—*Not received.*	Worthing (Ellesmere) (8 *in. g.*)
Chichester (Eartham House)—*Observer dead.*	Chichester (Charlton).
Horsham (Bourne Hill)—*Observer dead.*	Tillington (River House).
	Lynchmere (Shottersmill).

EAST SUSSEX (67).

Eastbourne (Trevella)—*Record ceased.*
Willingdon (Hill Cottage)—*Return incorrect.*
St. Leonards (The Grove)—*Observer dead.*
Lewes (Southmalling)—2 *gs.*, *Record ceased.*
Isfield Place—2 *gauges*, *Record imperfect.*
Balcombe (Highley Manor)—*Observer moved.*
Forest Row (Harbury)—*Record ceased.*

Eastbourne (Sussex Gardens).
Brighton (Kemp Town).
,, (Abattoir).
Iford.
Ticehurst (Whiligh).
Rotherfield (Bonnie View).
Wadhurst (Kirkstone).
Crawley Down (The Grange).
Forest Row.

HAMPSHIRE (104).

Hurst Castle—*Record ceased.*
Kilmeston Manor—*Record ceased.*
Liss (Liss Place)—*Observer moved.*
,, (Lingwood)—*Observer moved.*
East Tisted—*No reply.*
Old Lodge [Salisbury]—*Observer moved.*
Alton (Hill House)—*Observer abroad.*

Bournemouth (Water Tower).
Lymington (Pennington Chase).
Lyndhurst (Fritham House).
Southampton (Thornhill Park).
Chandler's Ford (Fryern).
East Liss (Hill Brow).
Horsebridge (Bossington).
Oakley.
Winchfield (Sheldons).
Kingsclere.

BERKS (41).

Hungerford (Denford Park)—*No observations.*
Twyford (Hurst Grove)—*Observer away.*
Maidenhead (Pinkney's Green)—*Rec. ceased.*
Faringdon (The Elms)—*Record ceased.*

Frilsham House.
Lambourn (East Garston).
Faringdon.

HERTS (53).

Southgate (The Lawns)—*Observer dead.*
Hemel Hempstead (Nash Mills)—*Rec. ceased.*
Great Berkhampstead (The Hall)—*No reply.*
Knebworth—*Record ceased.*
Royston (London Road)—*Observer dead.*

Northaw (Northacre).
Gt.Berkhampstead (Rose Cottage) M
Hitchin (Preston).

BUCKS (29).

Princes Risboro' (Little Kimble)—*Obs. dead.*
NewportPagnell(GorefieldVic.)—*see Cambridge*

Amersham (Rumseys).
Aylesbury (High Street).

OXFORD (42).

Whitchurch Rectory—*Observer dead.*
Witney (Lynton House)—*No reply.*
Barford St. Michael (Irondown)—*Obs. moved.*
Goring (Elmcroft).
Henley-on-Thames (Henley Park).
Drayton St. Leonard.
Holton Park.
Steeple Aston (Hill House).
Banbury (Ark House School).

NORTHAMPTON (52).

Wansford (Apethorpe Lodge)—*No observtns.*
Stamford (Duddington)—*Observer dead.*
Sywell Hall.
Barnack (Walcot Hall).

HUNTS (9).

Buckden.

BEDFORD (20).

Aspley Guise (Oaklands) M.
Biggleswade (Langford Vicarage).

CAMBRIDGE (46).

March (Stags Holt)—*Observer dead.*
Whittlesford (Sawston Vicarage).
Harston.
Cambridge (Benet Place).
Soham.
Stretham (Orchard House).
Wisbech (Gorefield Vicarage).

ESSEX (68).

Romford (Hare Street)—*Record ceased.*
Billericay (Norsey Manor)—*No reply.*
Abbess Roding—*Record imperfect.*
Harlow (Sheering)—*Record ceased.*
Chelmsford.
Witham (Terling Vicarage).
Braintree (Bocking).
Dunmow (Saling Grove).
Dedham (Dalethorpe).
Great Maplestead.

SUFFOLK (47).

Ipswich Museum—*No reply.*
Hollesley Bay.
Woodbridge (Melton Asylum).
Gorleston (Springfield Road).
Burgh Castle Rectory.

NORFOLK (58).

Honingham—*Record imperfect.*
Taverham Hall—*No reply.*
Drayton—*Record ceased.*
Pulham St. Mary.
Raveningham Hall [Beccles].
Keswick Lodge.
Dersingham Vicarage.

WILTS (45).

Mere Down—*Observer moved.*
Trowbridge (Steeple Ashton)—*Record ceased.*
,, (Rodney House)—*Not received.*
Burbage (Wolf Hall)—*No reply.*
Bradford (Winsley Manor).
Calne (Calstone Rectory).
Malmesbury (Charlton).

DORSET (52).

Weymouth (Markham House)—*Record ceased.*
Corfe Castle (Creech Grange)—*Record ceased.*
Upwey (Westbrook)—*Observer dead.*
Thornford Rectory [Yeovil]—*Record ceased.*
West Lulworth Vicarage.
Dorchester (Wollaston House).
Poole (Parkstone)—*New gauge.*
Lyme Regis (Colway Cottage).
Beaminster (Tower View).
Broadwindsor.
Iwerne Minster (Shroton).
Sherborne (Coombe Farm).

DEVON (116.)

Salcombe (Prawle Point)—*Record ceased.*
Budleigh Salterton (Ravenshaw)—*Not rec.*
Barnstaple (Bratton Fleming)—*Rec. ceased.*
Dartmouth (Redlap House).
Torquay (Chapel Hill, Tower).
Teignmouth (Bitton Street).
,, (Woodlands).
Starcross (Cofton Vicarage).
Exeter (Heavitree).
,, (Manston Terrace) *2nd g.*
,, (Elmfield).
Parkham (Melbury Reservoir).
South Molton (Castle Hill Gardns).
Westward Ho! (Beacon Lights).

CORNWALL (47).

Truro (St. Michael Penkevil)—*Obs. moved.*
St. John's [Devonport]—*Observer dead.*
Liskeard (Green Bank)—*Observer moved.*
Stratton (Trelana, Poughill)—2 *g.*—*Obs. dead.*
Mullion.
Penzance.
St. Just West.
Redruth (Trewirgie).
St. German's (Trethill).
West Looe (Morval).

SOMERSET (79).

Chard (Cricket St. Thomas)—*Return imp.*
South Petherton (Bridge)—*Record ceased.*
Glastonbury (Portway, Street)—*Rec. ceased.*
,, (Magdalene House)—*Observer ill.*
Shepton Mallet (Sew. Fm., Darshill)—*No reply.*
Axbridge (Cross)—*Record ceased.*
North Petherton (The Old Rectory).
Bridgwater (Fiddington).
Exmoor (Simonsbath).
Radstock (Downside College).
Axbridge (Loxton Rectory).
Bath (Henrietta Park).
,, (Kingswood School).
,, (Hampstead, Combe Park).

GLOUCESTER (79).

Clifton College—2*nd gauge, Not received.*
Bristol (Hampton Lodge)—*Record imperfect.*
Newnham-on-Severn—*No reply.*
Chipping Campden (Ebrington)—*Rec. ceased.*
Chalford (Hyde House).
Cirencester.
Gloucester (Birdlip Hill)—*New g.*
Winchcombe.

HEREFORD (27).

Ross (Perrystone Court)—*Not received.*
Much Marcle (Homme House)—*Obs. dead.*
Hereford (St. Michael's Priory)—*Rec. imp.*
,, (Burghill) No. 3—*Observer ill.*
Kington (Belmont)—*Record ceased.*
Much Marcle (Claremont).
Bodenham Vicarage.

SHROPSHIRE (39).

Bridgnorth (Coton Hall)—*No observations.*
Market Drayton (Fernleigh)—*Observer dead.*
Bromfield (Oakley Park).
Bishop's Castle (Cabin).
Church Stretton (Longhills).
Shifnal (Hatton Grange).
Shrewsbury.
,, (Highfield).
,, (Roden).

STAFFORD (41).

Burton (Ashby Road).
Golden Hill (Highfield House).

WORCESTER (35).

Bredon's Norton—*Record ceased.*
Kidderminster (Woodfield)—*Observer moved.*
King's Heath (Brandwood House)

WARWICK (35).

Fenny Compton (The Grange)—*Record lost.*
Southam—*Observer dead.*

Farnborough (Honington).
Coventry (Stoke).
Sutton Coldfield.

LEICESTER (28).

Leicester (Town Hall Square)—9 *in. g. Under repair.*
Harby—*No reply.*

Gumley Rectory.
Kibworth Harcourt.
Wigston Magna (Bushloe House).
Barrow-upon-Soar.
Charnwood Forest (Blackbrook Res.)
Whitwick (Mt. St. Bernard's Abbey).

RUTLAND (7).

Uppingham (West Deyne)—*Record ceased.*
Ketton Hall [Stamford]—*Observer dead.*

Uppingham (Ridlington).
Ketton Vicarage.

LINCOLN (69).

Grantham (Syston Park)—*No reply.*
Lincoln (Moorlands, Skellingthorpe)—*No reply.*
,, (The Quarry)—*Observer dead.*
Caistor (Cabourne)—*Observer ill.*

Leadenham Rectory.
Temple Bruer.
Market Rasen (Tealby).

NOTTS (44).

Kingston Fields (Dairy Institute)—*Not received.*
Newark (Averham Rec.)—*Record incomplete.*

Nottingham (Strelley Hall) M.
Mansfield.

DERBY (59).

Winshill [Burton]—*Record ceased.*

Breadsall Priory—2 *gauges.*
Ashbourne Water Works.
Belper (Highfield).
Matlock Bath—*New gauge.*
Darley Dale (Whitworth Inst.).
Totley Hall.
Edale (Upper Booth).
Ashopton (Win Hill).
,, (Coxbridge Farm).
Derwent (Rowlee Pasture).
Kinder Scout (Ashop Head).
Ronksley Moor (Back Dyke).
Woodhead (Bleaklow Stones).
,, (Featherbed Moss).

CHESHIRE (73).

Chester Water Works.
,, (Upton Lawn).
Wilmslow (Southside).
Hoylake (The Chase, East).

LANCASHIRE (192).

St. Helens (Victoria Park)—*Not received.*
Manchester (Plymouth Grove)—*Rec. impft.*
Dalton (Ashurst Beacon)—*Record ceased.*
Bolton (Belmont)—*Old gauge discontinued.*
Entwistle—*Old gauge discontinued.*
Blackburn (Samlesbury)—*G. out of order.*
Garstang (Forton)—*Observer moved.*
Heysham Hall—*Observer moved.*

Liverpool (Rathbone Road).
Eccles (Worsley New Hall).
Barton Moss (Downholland).
Rochdale (Nayden Dean Filters).
Haslingden (Springfield Lodge).
Over Darwen (Gillibrand Obs.)
Blackburn (Water Works Office).
,, (Corporation Park).
Accrington (Milnshaw Park).
Cartmel (Carke).

YORKSHIRE—WEST RIDING (276).

Methley Park—*No reply.*
Bradford (Allerton Road)—*Record ceased.*
York (Phil. Soc. Gardens)—2*g.*—*Not received.*
,, (Bootham)—*Not received.*
Austwick (Crow Nest)—*Observer dead.*

Sheffield (Stumperlow Hall).
Mexborough.
Chapelthorpe (Crigglestone).
Rishworth (Ringstone Res.).
Hebden Bridge (Summerfield).
Bradford (Horton).
Bingley (Sunnydale).
Harrogate (Wonderful House).
Ramsgill (Raygill House).
Ingleton Vicarage.

YORKSHIRE—EAST RIDING (26).

Cottingham—*Record lost.*

YORKSHIRE—NORTH RIDING (38).

Hawes Junction—*Record ceased.*
Aysgarth Vic.—12 *in. g.*—*Record incomplete.*
Scarborough (Obs.)—*Record interrupted.*
Robin Hood Bay (Fylingdales Vic.)—*Accidentally destroyed.*

Easingwold (Marton Vicarage).
Malton.
Great Ayton (Easby Hall).

DURHAM (37).

Tow Law—*Record ceased.*

Wearhead.

NORTHUMBERLAND (51).

Ovingham (W. Tyne Colliery)—*No reply.*
Newcastle (Gladstone Terrace)—*No reply.*
Meldon (Gallowhill Hall).
Morpeth.
Alwinton (Harbottle Castle).

CUMBERLAND (66).

Kirksanton (The Croft)—*Record lost.*
Ulpha School House—*Observer moved.*
Egremont (Park Ho., Bigrigg)—*Record ceased.*
Borrowdale Vicarage, M—*Record imperfect.*
Penrith (Kirkland Vicarage)—*No reply.*
Seathwaite.
St. Bees.
Bassenthwaite (Armathwaite Hall)
Carlisle (Rickerby).

WESTMORELAND (36).

Shap (Church View)—*Record ceased.*
Kirkby Lonsdale.
Kendal (Natland Vicarage).
Great Strickland (Greencroft).

MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH (29).

Usk (Twyn House)—*Observer moved.*
Llantilio Court—*No reply.*
Monmouth (School House).
Abergavenny (Dyne House) M.
Llantillio Pertholey.

GLAMORGAN (47).

Barry W.W. (Pencoedtre)—*Rec. unreliable.*
Pengam—*Record imperfect.*
Dowlais (Cwm Bargoed)—*No observations.*
Cowbridge (The Ham).
Cardiff (Roath Park).
Penarth (Cwrt-y-Vil.).
Port Talbot (Margam W.W.)
Gilfach Goch (Gilfach House).
Swansea (Killay House).
Llwynpia (Glyncornel).
Merthyr (Pentrebach).

CARMARTHEN (9).

Carmarthen (The Friary).

PEMBROKE (8).

CARDIGAN (4).

BRECKNOCK (40).

| Brecknock(Llandefaelog-fach)No. 1

RADNOR (17).

Old Radnor (Evancoyd)—*Record imperfect.*
Llandrindod—*Not received.*
Rhayader (Pen-y-gareg)—*Not received.*
,, (Craig Gôch)—*Not received.*
,, (Abergwngy)—*Gauge leaking.*

| Disserth Rectory.
| Knighton.

MONTGOMERY (12).

| Newtown (Dolfor).

FLINT (8).

Halkyn—*Record ceased.*

DENBIGH (19).

Llangollen (Plas Berwyn)—*Record ceased.*
Colwyn Bay (Nant-y-Glyn)—*Observer moved.*

| Denbigh (Llyn Bran, Bylchau).

MERIONETH (8).

Bl. Ffestiniog (Cwmorthin)—*Record ceased.*

CARNARVON (24).

| Llanllyfin (Rhydlydan).
| Dolwyddelan, No. 1.
| ,, ,, 2.
| ,, ,, 5.
| Llandwrog(GlynllivanGarden)2*ndg.*
| Idwal Lake, South End, No. 6.
| ,, ,, North End, No. 9.
| Eigian Lake, No. 3.
| ,, ,, No. 8.
| Bangor (Glasinfryn).
| ,, (Penrhyn Castle).

ANGLESEA (7).

| Llangristiolus (Lledwigan).

ISLE OF MAN (10).

ISLES OF SCILLY (2).

JERSEY (2).

GUERNSEY (6).

SCOTLAND.

WIGTON (6).

KIRKCUDBRIGHT (17).

Kirkcudbright (Balmae)—*No observations.* | Dalbeattie (Munches).

DUMFRIES (13).

Lochmaben (Esthwaite)—*Record ceased.* | Moffat (Ericstane)—*Snowdon g.*

ROXBURGH (12).

Jedburgh (Sunnyside)—*Record ceased.* | Hawick (Wolfelee).

SELKIRK (3).

PEEBLES (7).

| Stobo Castle.

BERWICK (7).

HADDINGTON (8).

| Garvald (Donolly Reservoir).

EDINBURGH (26).

Portobello (Joppa)—*Not received.*
Edinburgh (Charlotte Square) 2 *g.*—*Not recd.*

LINLITHGOW (4).

Uphall—*Gauge out of order.*

| Linlithgow (Nether Parkley) M.

LANARK (18).

| Glasgow (George Square).

AYR (17).

| Girvan (Glendoune Gardens).
| Ayr (Doonholm).

RENFREW (27).

| Lochwinnoch (Castlesemple).

DUMBARTON (5).

| Kirkintilloch (Newdyke).

STIRLING (20).

| Banton Brickworks.

BUTE (4).

Kingarth (Plan)—*Gauge under repair.*

ARGYLL, MAINLAND (18).

Loch Eil (Conaglen)—*Not received.*

| Lochgilphead (Poltalloch) M.
| Oban (The Corran).
| Ardgour.

ARGYLL, INSULAR (17).

CLACKMANNAN (3).

KINROSS (4).

FIFE (15).

Kilmany (Mountquhanie House)—*Obs. dead.*

PERTH (30).

Ochtertyre [Stirling]—*Record imperfect.*
Perth (Huntingtower Field)—*No observations.*
Dunkeld (Inverbraan)—*Record unreliable.*
Pitlochry (Fasganevin)—*Observer dead.*
Braco (Nether Cambushinnie).
Loch Earn (St. Fillans).

FORFAR (36).

Forfar (Lilyfield).
Rescobie (Pitscandly).

KINCARDINE (6).

Fettercairn (The Burn) *Garden—Record [doubtful.*

ABERDEEN (16).

Old Deer—*Observer moved.*
Towie (Culquoich).
New Deer Schoolhouse.

BANFF (4).

Boyndie (Whitehills)—*Record ceased.*

ELGIN OR MORAY (6).

Elgin (Highfield)—*Observer abroad.*
Covesea Skerries—*Record unreliable.*

NAIRN (4).

| Ardclach (Glenferness).

WEST ROSS (12).

Loch Vraon—*Record ceased.*

| Kintail (The Glebe).
| Lochbroom (Loch Drome).
| Braemore (Foich Lodge).

EAST ROSS (8).

Strathpeffer Station—*Record ceased.*

WEST INVERNESS (24).

Fort William (Ardtraigh)—*Record ceased.*

| Glenelg.
| Skye (Lynedale).
| Rona.
| S. Uist (Askernish).

EAST INVERNESS (14).

| Loch Ness (Drumnadrochit).

SUTHERLAND (11).

Tongue (Talmine)—*Observer dead.*

| Bettyhill.

CAITHNESS (7).

| Wick (Nosshead).
| Dunnethead.

ORKNEY (12).

Westra (Noup Head).

SHETLAND (5).

Sumburghead—*Record imperfect.*

IRELAND.

CORK (14).

Bandon (Ardnacarrig).
Passage West.
Cork (St. Anne's Hill).

KERRY (7).

Mangerton—*Gauge leaking.*

WATERFORD (8).

TIPPERARY (7).

Nenagh (Clashnevin)—*Observer moved.*

LIMERICK (6).

Adare Manor.

CLARE (10).

O'Briensbridge (Ross)—*Record ceased.*

Newmarket-on-Fergus.
Ennistymon House.
,, Rectory.

WEXFORD (7).

KILKENNY (7).

WICKLOW (9).

Enniskerry (Parknasilloge)—*Record ceased.*

Roundwood.
,, (Knockatemple).
Tithewer.
Annacarter.

CARLOW (2).

QUEEN'S COUNTY (1).

Abbey Leix (Pembroke Terrace)—*Rec. ceased.*

KING'S COUNTY (4).

KILDARE (2).

DUBLIN (13).

Kingstown (Tivole Terrace)—*Observer dead.*

Ballybrack (Streamville).
Donnybrook (Seaview Terrace).

MEATH (6).

WESTMEATH (4).

LOUTH (3).

LONGFORD (1).

GALWAY (9).

Tuam (Castle Hacket)—*No reply.*

ROSCOMMON (2).

MAYO (6).

Belmullet—*Record imperfect.*

Achill (Coraun House).
Newport (Burrishoole House).
Doo Castle [Tobercurry].

SLIGO (4).

LEITRIM (3).

Ballinamore (Lawderdale)—*Return imperfect.*

CAVAN (6).

MONAGHAN (2).

ARMAGH (5).

DOWN (9).

Mourne Mountains (Windy Gap)—*Rec. ceased.*

ANTRIM (16).

Ballynure (Ballyboley)—*Record ceased.*

LONDONDERRY (5).

Coleraine—*Observer dead.*

TYRONE (3).

DONEGAL (7).

Raphoe (Convoy House)—*Observer ill.*
Bloody Foreland (Ardnadrean)—*Record lost.*

OBITUARY.

THE first name to which reference must be made is that of the Founder of the British Rainfall Organization, an association unequalled in the world, the national importance of which has been publicly acknowledged for many years, and which was officially recognised when H.R.H. the Prince of Wales, as President of the Society of Arts, decorated him with the Albert Medal "for the services he had rendered to the United Kingdom . . . . . by establishing and carrying on during nearly forty years systematic observations of the rainfall of the British Isles." In addition, he may justly be described as the father of scientific rainfall investigation, for before his time scarcely one of the problems of the subject had been attacked. His work lives, and has demonstrated its value so thoroughly that while England remains a civilized country it will be carried on. His own observations continued over 42 years, under conditions practically constant, and with a completeness such as few records can show.

The list of deceased observers is this year of average length, and is very typical of the all-embracing character of the organization, including as it does a great writer of fiction in the author of "Lorna Doone"; Lord Farrer, Permanent Secretary to the Board of Trade; Rogers Field, one of the leaders in the science of Sanitary Engineering; T. H. Ismay, founder of the White Star Line, and personification of the mercantile enterprise of the nation; the Rev. Cathel Kerr, who left his quiet manse in Sutherlandshire to minister to our troops in S. Africa; E. J. Lowe, a botanical specialist, and one of the original members of the Royal Meteorological Society; and G. J. Symons, perhaps in the truest sense a public benefactor.

Out of the 52 observers no fewer than eighteen had made observations for more than a quarter of a century, and twelve had records extending over more than 30 years. The longest unbroken records are those of 50 years at Aylesbury, by J. Copcutt, followed by 42 years at Camden Square by G. J. Symons; 38 years at Hampstead by Rogers Field; 38 years at Sevenoaks by J. T. Rogers; 35 years at Ardwick by J. Casartelli, and 35 years at Woolstaston, near Church Stretton, by the Rev. Donald Carr, one of the few men who had spent a night buried in the snow and lived to relate the experience. Sent for to visit a dying parishioner on the Shropshire hills, he lost his way in a snow-storm, and was found in the morning covered by a drift. To two names the * is attached, showing that they were among the original 168 contributors to *British Rainfall.*

No fewer than ten of the deceased observers had passed the allotted three score years and ten, and six had reached the fourscore, again supporting our old friend's contention that meteorologists are a long-lived race, but he himself proved an exception to the rule, as will, there is little doubt, the successor to whom he has deputed his labours.

Observers Deceased to July, 1900.

NAMES AND STATIONS.	PERIOD OF OBSERVATION. DATE.	Perfect Yearly Records.
Baldry, J. D., Esq., Loch Vraon, Loch Broom; Loch Drome, ,, ,,; Braemore House, ,, ,,; ,, Lodge, ,, ,,	C 1868-87	76
Blackmore, R. D., Esq., Gomer House, Teddington	C 1866 imp -99	33
Bowles, Miss, St. Helen's, Northam, Bideford	C 1890-99	9
Cadell, J. J., Esq., Carron Park, Larbert	C 1892 imp -99 T ...	12
Cadell, J. J., Esq., Craigdouffie, Banton by Bonnybridge	C 1894 imp -99 T ...	
Carr, Rev. E. Donald, Woolstaston, Church Stretton, Salop	C 1865-99 C	35
Casartelli, J., Esq., Market Street, Manchester ...	C 1830-53 imp T ...	68
Casartelli, J., Esq., Ardwick, Manchester	C 1853 imp-89 imp T	
Casartelli, J., Esq., Alexandra Park, Manchester.	C 1889 imp -99 C ..	
Church, H. P., Esq., The Lawns, Southgate.....	1871-99 imp T	28
Chute, Mr. A., Castlecote, Donamon, Roscommon	1889-93 T	6
Chute, Mr. A., Tivole Terr., Kingstown, Dublin.	C 1898 T	
Clark, Mr. W., Loch Leven Sluice, Kinross	1880-99 C	20
Copcutt, J., Esq., C.E., Aylesbury	C 1838-99	50
Courtauld, S., Esq., Bocking Place, Braintree	C 1874 imp -99	25
Coventry, F., Esq., Ketton Hall, Stamford	C 1878 imp -98.....	24
Coventry, F., Esq., The Holmes, Ketton, Stamford	C 1892 imp-95 imp T	
Coventry, F., Esq., Duddington, Stamford	C 1895 imp-99 imp T	
Cox, G. Addison, Esq., Camperdown Works, Dundee	1885-99	14
Dixon, T. G., Esq., Nant, Prestatyn, Flint.....	1874-89 imp T ...	22
Dixon, T. G., Esq., Dolben, St. Asaph.....	C 1889 imp-98 imp T	
Dixon, T. G., Esq., Plas Elwy, St. Asaph	C 1898 imp T.....	
Elder, Mr. D., Silverbut Hall, Hawick	C 1865-84 imp T ...	32
Elder, Mr. D., Wilton Hill, Hawick	C 1884 imp -86 T...	
Elder, Mr. D., Langholm	C 1887-96 imp T ..	
Elder, Mr. D., Bolton Road, Skipton	1897-98 C	
Farrer, The Rt. Hon. Lord, Abinger Hall, Dorking..	1879-99 C	21
Field, Col., Poughill, Trelana, Bude	1889-98 T	10
Field, Rogers, Esq. C.E. Squire's Mount, Hampstead	C 1862-99 C	95
Field, Rogers, Esq. C.E. The Pryors, Hampstead ...	1875-99	
Field, Rogers, Esq. C.E. Sawyer's Hall, Brentwood.	C 1868-99	
Firth, J., Esq., New Barnsley, Belfast.....	C 1875-92 imp T ...	24
Firth, J., Esq., Springfield, Belfast	C 1892 imp -99 C ...	
Gillespie, D., Esq., Mountquhanie Ho., Kilmany...	1872-98	27

Observers Deceased to July, 1900—(*continued*).

NAMES AND STATIONS.	PERIOD OF OBSERVATION. DATE.	Perfect Yearly Records.
Gillespie, Genl., Brynderwen, Usk	C 1897 imp -99	2
Hildyard, H. J., Esq., Cherry Burton House, Hull	1895-99	5
Howson, J., Esq., Crow Nest, Austwick, Settle	C 1894 imp -99 imp T	4
Ilbert, A., Esq., Westbrook, Upwey, Dorset	1898	1
Ismay, T. H., Esq., Dawpool, Wirral, Cheshire	1887-99	13
Kennedy, J., Esq., Coleraine	C 1884-98	15
Kerr, Rev. Cathel, Talmine. Melness, Sutherland	C 1897 imp -99 imp T	1
Lowe, E. J., Esq., F.R.S. — Highfield Ho., Nottinghm.	1860-81 T	30
Lowe, E. J., Esq., F.R.S. — Shirenewton Hall, Chepstow	1884-99	
Lowry, Mr. J., Prospect Villa, Moville	1878-99	22
McLandsborough, J., Esq., — Town Hall, Bradford	1877-82 T	24
McLandsborough, J., Esq., — The Exchange, Bradford	1872-89 C	
Maxton, Mr. J., Homme House, Much Marcle	1887-98	12
Michel, Capt., Forcett Park, Darlington	1896-99	4
Middleton, R., Esq., Fitz Manor, Shrewsbury	C 1866-80 T	15
Milbank, Sir Penistone, Bart., Eartham House, Chichester	1871-98	28
Parnell, J., Esq., Hadham House, Upper Clapton	C 1864-93 T	30
Percy, Rev. P. H., Feniton, Farnborough, Kent	C 1895 imp -98 C	3
Piercy, J. Beaumont, Esq. — Leigh, Uttoxeter	C 1880 imp -85 T	49
Piercy, J. Beaumont, Esq. — Fernleigh, Market Drayt'n	C 1895 -98 T	
Piercy, J. Beaumont, Esq. — The Meir, Longton	1882 -97 C	
Piercy, J. Beaumont, Esq. — Madeley, Newcastle, Staff.	1887 -94 C	
Piercy, J. Beaumont, Esq. — Wall Grange, Leek	1882 -97 C	
Reynolds, R., Esq., Woodhouse Cliff, Leeds	1878 -98 C	21
Robinson, Wilson, Esq., Whinfell Hall, Cockermouth	C 1856 -99	34
*Rock, J., Esq., Fairlight, Hastings	1857 imp -63 T	6
Rogers, J. T., Esq., River Hill, Sevenoaks	C 1861-99	38
Rutter, J. F., Esq., Dews House, Mere, Wilts	1882-99	18
Rylands, T. G., Esq., Highfields, Thelwall, Warrington	1872-99	28
Severne, J. E., Esq., Wallop, Shrewsbury	C 1885 imp -99	14
Shapley, C., Esq., Cary Green, Torquay	1892-99	8
Simson, J., Esq., — Cloona Castle, Hollymount, Mayo	1872-79	25
Simson, J., Esq., — Kilrush, Hollymount, Mayo	C 1880 imp -97	
Stileman, Miss, The Friars, Winchelsea	C 1874-98 C	23
Sturges, Rev. H. C., — Filkins, Lechlade	1885 imp-90 imp T	13
Sturges, Rev. H. C., — Bodenham Vic., Leominster	1891-99	
Symons, G. J., F.R.S., Camden Sq., London, N.W.	C 1857 imp -99 C	42
Turner, E., Esq., Southam, Warwick	1871-98 T	26
Watkins, H., Esq., Easton, Stamford	1885-94 C	10
Wilkin, Rev. A., — Bootle Rectory, Cumberland	C 1863-78 imp T	36
Wilkin, Rev. A., — Summerhill, Tenterden	C 1878 imp -99 C	

NOTE.—C indicates commencement of record and also its continuation, T its termination.

RAINFALL AND METEOROLOGY

OF

1899.

SYMBOLS EMPLOYED.

H.R.S. -	Highland Railway Station.
H - - - -	Hail.
L - - -	Lightning.
R - -	Rain, Rainfall.
S -	Snow.
T - - - -	Thunder.
TS - -	Thunderstorm.
TSS - - -	Thunderstorms.

ON THE METEOROLOGY OF 1899.

WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA.

[These Notes should be read in conjunction with those on Heavy Rains in 1899.]

JANUARY.

1st.—*Emsworth, Redlands* (II). W. gale.—*Otterford, Otterhead* (V). T and L.—*Wellington, The Avenue* (V). Heavy H and sleet.—*Goldsborough Hall* (IX). Fog all day; S in evening.—*Dowlais, Gwernllwyn* (XI). S, H, R, L and T.—*Hurdlestown* (XX). Severe N.W. gale and S.

1st and 2nd.—*Isfield Place* (II). L.—*Llandovery* (XI). H.—*Abergwesyn* (XI). H and sleet.—*Douglas, Woodville* (XI). S.W. gales. — *Caher, Duneske* (XX). S on the mountains.—*Miltown Malbay* (XX). T, L and H.

2nd.—*West Dean* (II). N. gale, S and sleet.—*Swerford* (III). N.W. gale and S.—*Chelford, Astle Hall* (VIII). S and W.N.W. gale.—*Southport, Hesketh Park* (VIII). Whole gale from W.N.W.—*Monmouth, The Hendre* (XI). Severe gale.—*Llandefaelog-fach* (XI). S, H and R.—*Llanystumdwy, Talarvor* (XI). W. gale and H.—*Broadford, Hurdlestown* (XX). R and sleet all day; ground white.

6th.—*Douglas, Woodville* (XI). Violent S.S.E. gale.—*Ballachulish, Ardsheal* (XV). Gale from S.

6th and 7th.—*Dunkeld, Inverbraan* (XVI). S.

8th.—*Hurdlestown* (XX). S.E. gale.

9th.—*Waterville* (XX). From 11 a.m. to 1.30 p.m. ·79 in. of R fell.

9th—23rd.—*St. Albans, The Grange* (III). R daily.

10th.—*Penzance, St. Clare* (V). H.—*Abergwesyn* (XI). H.—*Drumnadrochit* (XVIII). Well-defined solar halo.

10th—12th.—*Broxbourne* (III). H daily.

11th.—*Abergwesyn* (XI). Very stormy, with S, frost and sleet.—*Poole, Hamworthy* (V). W. gale.—*Ashburton, Druid* (V). T, L, H and heavy R.—*Tavistock, Whitchurch* (V). L.—*Broughton-in-Furness* (VIII).

A rather heavy fall of S.—*Duddon Valley, Seathwaite Vic.* (VIII). One inch of S, followed by R.—*Llanystumdwy, Talarvor* (XI). H.—*Colmonell, Clachanton* (XIV). L.—*Galway, Queen's College* (XXII). L and heavy squalls.—*Markree Observatory* (XXII). Ground covered with S.

11th and 12th.—*Chatburn, Middlewood* (VIII). Exceptionally severe gale and heavy R.

12th.—*Lewes, Saxonbury* (II). S.W. gale.—*Emsworth, Redlands* (II). Violent S.W. to W. gale.—*Oxford, Magdalen Coll.* (III). Terrific gale. —*Swerford* (III). W. gale.—*Rendlesham Hall* (IV). Gale from S. with sleet and R.—*Bishops Cannings* (V). Heavy gale from W.—*Tavistock, Whitchurch* (V). Severe S.W. gale.—*Ludlow, Ashford* (VI). T, L and H.—*Findern* (VII). Strong S.W. gale.—*Chelford, Astle Hall* (VIII). The most severe gale remembered; many trees blown down and much damage done.—*Southport, Hesketh Park* (VIII). Hurricane; greatest velocity of wind at the rate of 90 miles per hour or a pressure of 24 lbs. per square foot.—*Llanfrechfa Grange* (XI). Heavy S.W. gale.—*Monmouth, The Hendre* (XI). Severe gale, uprooting trees.—*Llandovery* (XI). Gale and H.—*Llanystumdwy, Talarvor* (XI). Heavy S.W. gale.—*Douglas, Woodville* (XI). Violent S.W. gale.—*Cork, Wellesley Terrace* (XX). Great gale from W.—*Derry Castle* (XX). Fierce N.W. gale with T, L, R and sleet.—*Hurdlestown* (XX). S.W. gale all day.—*Belturbet, Cloverhill* (XXIII). W. gale.

12th and 13th.—*West Dean* (II). S.W. gales.—*Miltown Malbay* (XX). T and L.

13th.—*Culross, West Grange* (XVI). S.

13th—16th.—*Emsworth, Redlands* (II). Westerly gales.

14th—18th.—*Stamford, Duddington* (III). Welland in flood.

15th.—*Galway, Queen's College* (XXII). T, L and heavy squalls.

15th and 16th.—*Dowlais, Gwernllwyn* (XI). T and L.

15th—17th.—*Dunkeld, Inverbraan* (XVI). S.—*Nairn, Achareidh* (XVII). S.—*Watten H.R.S.* (XIX). S.

16th.—*Capel, The Cottage* (II). H and L.—*Kearsney Abbey* (II). In 10 mins., at 2.15 p.m., ·23 in. of R fell.—*Erith, Crossness* (II). Blinding S from 4 p.m. to 6.30 p.m., and much L at night.—*Sudbury, Friars Street* (IV). L.—*Ashburton, Druid* (V). T, L and H.—*Tavistock, Whitchurch* (V). T and L.—*North Cadbury Rectory* (V). TS at 4 p.m.—*Wellington, The Avenue* (V). T and L at night with H.—*Ross, The Graig* (VI). Wye in flood.—*Meltham, Harewood Lodge* (IX). T and L at 2.50 p.m.—*Dowlais, Gwernllwyn* (XI). H, R, T and L.—*Llanys-*

tumdwy, Talarvor (XI). TS with H and heavy squalls.—*Cork, Wellesley Terrace* (XX). L.—*Miltown Malbay* (XX). T and L.

17th.—*Duddon Valley, Seathwaite Vic.* (VIII). One inch of S followed by R.—*Craigend Castle* (XV.) Six inches of S.—*Stronvar* (XVI). Five inches of S.

18th.—*Broxbourne* (III). S.W. gale.—*Keswick, Shu-le-Crow* (X). Steady downpour of R, heaviest from 9 to 11 p.m., when there were fierce gusts from W.S.W. Total fall 3·21 in.

19th and 20th.—*West Dean* (II). Heavy S.W. gales.

20th.—*Abinger Hall* (II). Strong gale blowing down several fine trees, chiefly elms.—*Llandovery* (XI). Floods in the town; R 1·77 in. —*Abergwesyn* (XI). Very stormy with 3·43 in. of R.—*Douglas, Woodville* (XI). S.W. gale.

20th and 21st.—*Poole, Hamworthy* (V). S.W. gale.—*Monmouth, School House* (XI). Flood on the Wye said to be the highest since 1852.

21st.—*Lewes, Saxonbury* (II). S.W. gale.—*Oxford, St. Giles* (III). Lunar rainbow in S.E. at 3.45 a.m.—*Swerford* (III). S.W. gale.—*Ross, The Graig* (VI). Southerly gale with violent squall of R and H at 3 p.m.—*Coventry, Priory Row* (VI). Some flooding of streams but quickly subsiding.—*Wakefield, Stanley Grange* (IX). Shade max. 56°·1, the highest in January since 1888.

22nd.*—*Isfield Place* (II). Lunar rainbow at 11 p.m.—*West Dean* (II). Heavy S.W. gale veering to N.—*Ross, The Graig* (VI). The flood at Wye bridge, Hereford, rose to 17 ft. 3 in. and remained at this height from 1 p.m. to 3 p.m.—*Ludlow, The Sheet* (VI). In 28 days ending on this date 7·17 in. of R fell.—*Hurdlestown* (XX). S.W. gale.

28th.—*Southport, Hesketh Park* (VIII). Silver thaw.

31st.—*Douglas, Woodville* (XI). Hills covered with S.

FEBRUARY.

2nd.—*Miltown Malbay* (XX). T.

4th.—*Oxford, Magdalen Coll.* (III). S in afternoon and night.—*Bloxham Grove* (III). S.—*Blisworth, Grafton House* (III). S, yielding ·35 in.—*Colchester, Lexden* (IV). S.—*Alderbury* (V). S.—*Southport, Hesketh Park* (VIII). Ice on lake 2·6 inches thick.—*Colmonell,*

* See also *Met. Mag.*, Feb., 1899, p. 5.

Clachanton (XIV). About an inch-and-a-half of S.—*Caher, Duneske* (XX). S.—*Mullingar, Belvedere* (XXI). S.

4th and 5th.—*West Dean* (II). S and sleet.—*Alconbury* (III). S.

4th—6th.—*Coventry, Priory Row* (VI). S.—*Seathwaite Vic.* (VIII). S.—*Treherbert, Tyn-y-waun* (XI). S.

4th—16th.—*St. Albans, The Grange* (III). R daily except on 10th.

5th.—*Swerford* (III). S 2 inches deep.—*Rendlesham Hall* (IV). S storms.—*Flushing, Trefusis* (V). R 1·79 in. between 7 p.m. and 1 a.m. —*Ross, The Graig* (VI). Nearly an inch of S on ground.—*Abergwesyn Vicarage* (XI). Heavy fall of S.

6th.—*Swerford* (III). S or sleet nearly all day.—*North Cadbury Rectory* (V). Enormous wet flakes of S, followed by T.—*Wolverhampton, Tettenhall* (VI). S.—*Goldsborough Hall* (IX). Fine S and sleet all day.—*Glasgow, Queen's Park* (XIV). Three inches of S.

6th and 7th.—*Dunkeld, Inverbraan* (XVI). S.

6th—11th.—*Douglas, Victoria Road* (XI). S.E. gales daily.

7th.—*Swerford* (III). T in afternoon.—*Sudbury, Friars Street* (IV). L.—*E. Ruston Grange* (IV). TS.—*Worstead* (IV). Heavy TS with H and vivid L.—*Clifton, Pembroke Road* (VI). H storm.—*Further Barton* (VI). T, L and H.—*Cheltenham, Naunton Park Villas* (VI). TS. A pinnacle on the Roman Catholic Church was blown down during a violent squall between 2 and 3 a.m.—*King's Heath, Cambridge Road* (VI). In 2 mins., at 3.10 a.m., ·10 in. of R fell.—*Horncastle, Hemingby* (VII). T.—*Treherbert, Tyn-y-waun* (XI). T, L, H and heavy R.—*Llandovery* (XI). H.

7th and 8th.—*Lewes, Saxonbury* (II). Gale from S., with high tides. —*Dowlais, Gwernllwyn* (XI). T and L.

8th.—*Lichfield, Manley Hall* (VI). Hurricane at 3 a.m., with T and L. A stone stack of 4 chimneys was thrown down and another was shaken, and several fine trees were uprooted with tons of earth adhering to them in a space less than half-a-mile long and about 100 yards wide. The duration was little more than 10 minutes. Some large timber trees were blown down at Sutton Coldfield, 3 or 4 miles distant, but no damage occurred between.—*Salt Vicarage* (VI). Sharp TS at 2.30 a.m., L very vivid.—*Coventry, Priory Row* (VI). Stormy, with floods and L at night.—*Findern* (VII). TS at 10 p.m.—*Chelford, Astle Hall* (VIII). L at night.—*Doncaster, Wadworth Hall* (IX). T and vivid L at 10 p.m.—*Brampton, Denton House* (X). T and L.—*Abergwesyn Vicarage* (XI). H and L.—*New Galloway, Glenlee* (XII). L. —*Derry Castle* (XX). T and vivid L from 2 to 3 p.m.—*Moynalty,*

Westland (XXI). H.—*Mullingar, Belvedere* (XXI). Violent TS and H. —*Markree Observatory* (XXII). TS.

8th and 9th.—*Knaresborough, Farnham* (IX). L.—*Rathmines, Leinster Road* (XXI). L.

9th.—*Cheltenham, Naunton Park Villas* (VI). TS.—*Galway, Queen's College* (XXII). L, T, and heavy R.

9th and 10th.—*Isfield Place* (II). Floods.

10th.—*Kensington, Edith Road* (I). Max. temp. 65°·8, much the highest recorded in February.—*Wallington* (II). The hottest February day recorded; max. temp. 63°·1.—*Hitchin, The Firs* (III). Max. in shade 63°; the temp. in February never before reached 60° in 50 years.—*Worstead* (IV). Max. in shade 64°.—*Wakefield, Stanley Grange* (IX). Shade max. 59°·2, the highest in February since 1888.

10th—14th.—*Ross, The Graig* (VI). Wye in flood.

11th.—*Ashburton, Druid* (V). T, L, R and H.—*Penzance, St. Clare* (V). T and L.—*Llanvihangel Court* (XI). T.

11th and 12th.—*Bishop's Cannings* (V). Strong S.W. gales.

11th—13th.—*Emsworth, Redlands* (II). Gales from S.W., and T and L on 13th.—*North Cadbury Rectory* (V). Almost continuous gale. Much L at midnight on 11th. A chimney at Bratton St. Mawr crashed through the roof, and is thought to have been struck by L. —*Dowlais, Gwernllwyn* (XI). Very stormy, with H, R, L and T on 13th.

12th.—*Tunbridge Wells, Etherton Hill* (II). Springs burst which had not done so at all in 1898.—*Isfield Place* (II). Gale and H. Roofs of cottages damaged and two trees uprooted about 0.30 p.m.—*West Dean* (II). L and H.—*Long Ashton* (V). Considerable flooding of low-lying houses, caused by S.W. gale, high tides and R.—*Clifton, Pembroke Road* (VI). TS at 11.45 a.m.—*Southport, Hesketh Park* (VIII). Aurora in evening.

13th.—*West Dean* (II). Hurricane and H showers.—*Oxford, St. Giles* (III). Violent wind and L in evening.—*Sudbury, Friars Street* (IV). L.—*Ashburton, Druid* (V). T, L and H in afternoon, and at 5 p.m. a hurricane, doing much damage.—*Romansleigh Rectory* (V.) T and L.—*Wellington, The Avenue* (V). TS and H.—*Clifton, Pembroke Road* (VI.) Heavy TS with H from 4.30 to 5.30 p.m.—*Further Barton* (VI). Heavy gale and H, much L from 5 p.m. to 9 p.m.— *Cheltenham, Southam Villa* (VI). TS.—*Coventry, Priory Row* (VI). Heavy TS about 6 p.m. with nearly ·50 in. of R and H.—*Findern* (VII.) TS from 6 to 7 p.m.—*Llanfrechfa Grange* (XI). Sharp TS at

4.45 p.m.—*Dowlais, Gwernllwyn* (XI). T, L and H.—*Cork, Wellesley Terrace* (XX). L at night.—*Caher, Duneske* (XX). L.—*Markree Observatory* (XXII). L.

14th.—*Capel, The Cottage* (II). TS.—*Llandovery* (XI). H and T.—*Talmine* (XIX). S.W. gale.

15th.—*Douglas, Woodville* (XI). TS at 1 a.m., with heavy H for a few minutes.—*Nenagh, Castle Lough* (XX). Southerly gale.

26th.—*Linlithgow, Nether Parkley* (XIII.) Six inches of S.

MARCH.

1st and 2nd.—*Tongue, Talmine* (XIX). S.W. gale.

3rd.—*Amersham, The Plantation* (III), *Highmore Vic.* (III), *Oxford, Elsfield* (III), and *Cheltenham, Naunton Park Villas* (VI). Absolute drought for 16 days ended.

3rd and 4th.—*Drumnadrochit* (XVIII). S.—*Invershin* (XIX). S.

4th.—*Stronvar* (XVI). S five inches deep.

4th and 5th.—*Cheltenham* (VI). H.—*Dunkeld, Inverbraan* (XVI). S.

6th.—*Markree Observatory* (XXII). L.

7th.—*Emsworth, Redlands* (II). Absolute drought for 17 days ended.—*Cambridge, Benet Place* (III), *Dartmoor, Lowery* (V), *Polapit Tamar* (V), *North Cadbury* (V), and *Middleton-on-the-Wolds* (IX). Absolute drought for 20 days ended.

7th and 8th.—*Markree Observatory* (XXII). H.

8th.—*Seathwaite Vicarage* (VIII). S on the fells.—*Galway, Queen's College* (XXII). Heavy squalls and H.

9th.—*Birchington, Thor* (II). H storm.—*Ashburton, Druid* (V). S on the hills.—*Coventry, Kingswood* (VI). T and S.

13th.—*Slough, Upton* (III). A still warm day. In the afternoon an up current of air was observed raising numerous pieces of paper spirally for 70 or 80 feet.

17th—21st.—*Watten H.R.S.* (XIX). S daily.

18th.—*Tongue, Talmine* (XIX). N. gale and S.

18th—21st.—*Drumnadrochit* (XVIII). S daily.

18th—23rd.—*Keswick Lodge* (IV). S daily.

18th—24th.—*Cromer, Northrepps Hall* (IV). S daily.

18th—26th.—*Logie Coldstone Manse* (XVII). S daily.

19th.—*Geldeston* (IV). Seven-and-a-half inches of S fell at night.—*Skye, Strathaird* (XVIII). S.

19th and 20th.—*Markree Observatory* (XXII). H and S.

19th—22nd.—*Corwen, Rhug* (XI). S daily.—*Invershin* (XIX). S daily.

19th—23rd.—*Montrose, Kinnaber W.W.* (XVI). S daily.

19th—24th.—*E. Ruston Grange* (IV.) S.—*Launceston, Altarnon* (V). Two or three inches of S on the ground.—*Solva* (XI). Much S.

20th.—*Capel, The Cottage* (II.) S.—*Worstead* (IV). Whirlwind.* *E. Ruston Grange* (IV). TS.—*Ludgershall, Conholt Park* (V). Partial drought for 33 days, with ·26 in. of R, ended.—*Llandefaelog-fach* (XI). H and S.

20th and 21st.—*Hastings, Hollington* (II). S.—*St. Albans, The Grange* (III). S. Min. temp. 18°·2 on 21st, the lowest in the year.—*Newport* (IV). S.

20th—23rd.—*Loch Naver, Altnaharra* (XIX). S daily.—*Penzance, St. Clare* (V). S.

20th—25th.—*Tavistock, Whitchurch* (V). S on the ground; depth one-and-a-half inches on 21st.—*Loch Torridon, Shieldaig* (XVIII). S 11 inches deep on 25th.

21st.—*Capel, The Cottage* (II). S and T.—*Isfield Place* (II). Very cold with S; shade min. 10°·0.—*Ashburton, Druid* (V). Severe frost and S.—*Clifton, Pembroke Road* (VI). S storms.—*Cheltenham* (VI). Very cold, with S.—*Coventry, Priory Row* (VI). Blinding S storm, with great darkness at 4 p.m.—*Hurworth Grange* (X). Partial drought for 36 days, with ·33 in. of R, ended.—*Abergwesyn Vicarage* (XI). Heavy fall of S.—*Dunkeld, Inverbraan* (XVI). S.—*Nenagh, Castle Lough* (XX). S and H.

21st and 22nd.—*Alconbury* (III). S.—*Blandford, Whatcombe* (V). S storms.—*Tettenhall* (VI). S.—*Skye, Strathaird* (XVIII). S.—*Durness* (XIX). Six inches of S fell.

22nd.—*Wallington* (II). S one inch deep.—*Isfield Place* (II). T.—*E. Ruston Grange* (IV). Blizzard.—*Flushing, Trefusis* (V). Four inches of S.—*Galway, Queen's College* (XXII). S shower.

22nd and 23rd.—*Hemingby* (VII). S.—*Enniscoe* (XXII). S.

23rd.—*Liskeard, Beech Lawn* (V). One-and-a-half inches of S.—*Derry Castle* (XX). Sharp frost and S showers.—*Kilkenny, Sion Villa* (XXI). Absolute drought for 15 days ended.—*Mullingar, Belvedere* (XXI). S.

24th.—*Rendlesham Hall* (IV). Heavy S storms.—*Woodbridge Abbey* (IV). Partial drought for 37 days, with ·30 in. of R, ended.—*Chelten-*

* See *Met. Mag.*, 1899, p. 51.

ham (VI). Ice one-and-a-half inches thick.—*Burghill Court* (VI). Partial drought ended, 37 days, with ·31 in. of R.—*Alvechurch, Uplands* (VI). Partial drought ended, 37 days, with ·31 in. of R.—*Ballachulish, Ardsheal* (XV). S.—*Stronvar* (XVI). S 3 inches deep.—*Dunkeld, Inverbraan* (XVI). S.

24th and 25th.—*Riverhead Vicarage* (II). S.—*Inverary, Newtown* (XV). S.

25th.—*Birchington, Thor* (II). S storm. Exposed thermometer registered 6°.—*West Dean* (II). H and sleet.—*Solva* (XI). W.S.W. gale.—*Maxwelton House* (XII). Two inches of S between 6 a.m. and 9 a.m., followed by heavy R.—*Glasgow, Queen's Park* (XIV). Four inches of S.—*Callander, The Gart* (XVI). S.—*Stronvar* (XVI). S four-and-a-half inches deep.—*Montrose, Kinnaber W.W.* (XVI). S.

26th.—*Culross, West Grange* (XVI). S.

28th.—*Solva* (XI). S.W. gale.—*Maxwelton House* (XII). Between 9 a.m. and 6 p.m. 1·40 in. of R fell.—*Cork, Wellesley Terrace* (XX). S.S.W. gale.—*Galway, Queen's College* (XXII). Gale and heavy squalls.

29th.—*Linlithgow, Nether Parkley* (XIII). Within 10 hours 2·06 in. of R fell, causing high floods, the ground being frozen with six inches of S on it.

APRIL.

3rd.—*Oxford, Elsfield* (III). Partial drought for 47 days with ·37 in. of R, ended.

4th.—*Ballachulish, Ardsheal* (XV). S.W. gale.—*Tongue, Talmine* (XIX). S.W. gale.

5th.—*North Cadbury Rectory* (V). Partial drought for 49 days with ·42 in. of R, ended.

6th.—*Cork, Wellesley Terrace* (XX). Great storm from N.N.W.—*Derry Castle* (XX). Heavy W.S.W. gale.—*Nenagh, Castle Lough* (XX). W. to N. gale.—*Lawderdale* (XXII). N.W. gale.

6th and 7th.—*Miltown Malbay* (XX). The strongest gale for three years.

6th—8th.—*Cirencester, Further Barton* (VI). Severe S.W., N.W. and N. gale, with squalls of R, H and sleet on 8th.—*Douglas, Woodville* (XI). N.W. gales.

7th.—*Cheadle, The Heath House* (VI). H.—*Hemingby* (VII). T.—*Southport, Hesketh Park* (VIII). Strong N.W. gale.—*Wath-on-Dearne* (IX). TS.—*Goldsborough Hall* (IX). Heavy T with H.—*Knaresborough,*

Farnham (IX). T and L.—*Llanfrechfa Grange* (XI). N.W. gale.—*Brecknock, The Barracks* (XI). H storms.—*Abergwesyn Vicarage* (XI). Very stormy with H and sleet.—*Colmonell, Clachanton* (XIV). H.—*Ballindoney* (XXI.) Hurricane from N.W. blowing down hundreds of trees and damaging houses and ricks.

7th and 8th.—*Clifton, Pembroke Road* (VI). W. to N.W. gale.

8th.—*Horsell, Lindisaye* (II). H.—*Birchington, Thor* (II). Sharp TS at 2.25 p.m. with H and strong N.W. gale.—*Isfield Place* (II). R, S and H.—*Emsworth, Redlands* (II). R, S and H, and strong squalls from N.W.—*Oxford, Magdalen Coll.* (III). Showers of S.—*Sudbury, Friars Street* (IV). T and L.—*Cheltenham* (VI). S and H.—*Cheadle, The Heath House* (VI). H and heavy S.—*Chelford, Astle Hall* (VIII). S, H and R.—*Dowlais, Gwernllwyn* (XI). Heavy S showers.—*Llandefaelog-fach* (XI). S and H showers.

8th and 9th.—*St. Albans, The Grange* (III). S.

10th and 11th.—*Abergwesyn Vicarage* (XI). H and sleet.—*Drumnadrochit* (XVIII). S.

11th.—*Horsell, Lindisaye* (II). H.—*Birchington, Thor* (II). H storm.—*Clifton, Pembroke Road* (VI). H storm.—*Cirencester, Further Barton* (VI). Bitterly cold N. gale with H and T.—*Coventry, Kingswood* (VI). S.—*Brecknock, The Barracks* (XI). H storms.—*Llandefaelog-fach* (XI). H and S showers.—*Cahir, Duneske* (XX). S on the mountains.—*Moynalty, Westland* (XXI). H.

11th and 12th.—*Duddon Valley, Seathwaite Vic.* (VIII). S.

12th.—*Cheadle, The Heath House* (VI.) Heavy H storm at night.—*Tongue, Talmine* (XIX). S and drift.—*Killarney, Woodlawn* (XX). Immense damage to tender foliage by gales and H.

13th.—*Great Berkhampstead, Northchurch* (III). About ·50 in. of R fell in 1 hour.—*Cheadle, The Heath House* (VI). S storm and T.—*Findern* (VII). TSS.—*Chelford, Astle Hall* (VIII). TS in afternoon.—*Bolton, The Park* (VIII). Slight T and L.—*Wath-on-Dearne* (IX). TS.—*Llandovery* (XI). H.

13th and 14th.—*Cahir, Duneske* (XX). H.

14th.—*Derry Castle* (XX). Distant TS with H and sleet.

14th and 15th.—*Douglas, Woodville* (XI). N.E. gales.

15th.—*Ashburton, Druid* (V). H.—*Llandovery* (XI). H.—*Galway, Queen's College* (XXII). L and T with H.

16th.—*Broughton-in-Furness* (VIII). Heavy fall of S at night.—*Borrowdale, Grange* (X). S.—*Douglas, Woodville* (XI). S.—*Derry Castle* (XX). Heavy H.—*Enniscoe* (XXII). H.

16th and 17th.—*Findern* (VII). H.—*Lilliesleaf, Riddell* (XII). S. —*Cork, Wellesley Terrace* (XX). Showers of S and sleet, and the higher mountains capped with S.

16th—19th.—*Logie Coldstone Manse* (XVII). S daily.

17th.—*Tavistock, Whitchurch* (V). T and H.—*Clifton, Pembroke Road* (VI). H and sleet.—*Southport, Hesketh Park* (VIII). S.—*Cahir, Duneske* (XX). S on the mountains.—*Enniscoe* (XXII). S.

17th and 18th.—*Loch Naver, Altnaharra* (XIX). S.

17th—19th.—*Drumnadrochit* (XVIII). S.

18th.—*Ballachulish, Ardsheal* (XV). S.—*Stronvar* (XVI). S and sleet.—*Dunkeld, Inverbraan* (XVI). S.

20th and 21st.—*Treherbert, Tyn-y-waun* (XI). S.

21st.—*Glyncorrwg* (XI). S and R, yielding 2·70 in.

22nd.—*Thixendale* (IX). S.

24th.—*Coupar Angus* (XVI). Severe TS.—*Derry Castle* (XX). Heavy TS at 3 p.m., with H and sleet. The R a mile north was torrential, damaging roads, &c., considerably. The floods were heavy here also, but no serious damage was done.—*Nenagh, Castle Lough* (XX). TS, with H and R. There was a regular cloud-burst on a hill about three miles away, which tore up roads, burst over fences, and damaged oat and potato fields considerably.

25th.—*Capel, The Cottage* (II). H.—*West Dean* (II). Strong W. gale, with H.

28th.—*Hemingby* (VII). T.

29th.—*Goldsborough Hall* (IX). TS between 11 and noon.—*Thixendale* (IX). Great darkness at noon, followed by a heavy TS.

30th.—*Buchlyvie, The Manse* (XV). S.—*Ballachulish, Ardsheal* (XV). S.—*Dunkeld, Inverbraan* (XVI). S.

MAY.

1st.—*New Galloway, Glenlee* (XII). T and H.—*Invershin* (XIX). S.

2nd.—*Dunkeld, Inverbraan* (XVI). S.

3rd—7th.—*Ystalyfera, Wern Schools* (XI). Hard frost at night, doing much damage.

7th.—*Thixendale* (IX). Aurora.

10th.—*Derry Castle* (XX). Heavy TS from 1 to 3 p.m., with H.

11th.—*Tavistock, Whitchurch* (V). T and L.—*Ross, The Graig* (VI). T and L.—*Upton-on-Severn, The Eades* (VI).* The R was of a curious

* See also *Met. Mag.*, June, 1899, p. 73.

inky colour.—*Knaresborough, Farnham* (IX). S, H and R, 1·28 in.—*Treherbert, Tyn-y-waun* (XI). T and L.—*Llandovery* (XI). T and L.—*Abergwesyn Vicarage* (XI). TS.—*Cork, Wellesley Terrace* (XX). T, L and heavy R.—*Ballindoney* (XXI). TS and heavy R.

11th and 12th.—*Oxford, St. Giles* (III). T.—*Ashburton, Druid* (V). T.—*Cheltenham, Southam Villa* (VI). T.

11th—13th.—*Dowlais, Gwernllwyn* (XI). T and L.

12th.—*Muswell Hill* (I). L at 6.5 p.m.—*West Dean* (II). TS and heavy H.—*Fordingbridge, Wood Green* (II). T.—*Broxbourne* (III). T.—*Datchworth Rectory* (III). T and ·84 in. of R.—*Swerford* (III). T and L.—*Odsey* [*Royston*] (III). TS and H.—*Alderbury* (V). T and L.—*Romansleigh Rectory* (V). Heavy T and L.—*North Cadbury Rectory* (V). T and L; bad storms to N. and E.—*Clifton, Pembroke Road* (VI). TS.—*Cirencester, Further Barton* (VI). T, L, R and H in afternoon and evening.

13th.—*Bournemouth, Kempsey* (II). Absolute drought for 15 days ended.—*Campden, Hidcote* (VI). TS.

14th.—*Findern* (VII). TS with H.—*Forres, H.R.S.* (XVII). TS in the afternoon.—*Invershin* (XIX). T.—*Markree Observatory* (XXII). Heavy H shower.

14th and 15th.—*Craigend Castle* (XV). TSS.—*Balquhidder, Stronvar* (XVI). T.

15th.—*Oxford, Magdalen Coll.* (III). Heavy showers of H and R.—*Colchester, Lexden* (IV). T.—*Tavistock, Whitchurch* (V). Solar halo and H.—*Clifton, Pembroke Road* (VI). H and R storms.—*Salt Vicarage* (VI). Sharp TS with H and ·25 in. of R in 10 mins. A tree struck.—*Findern* (VII). TS. Repton spire struck by L.—*Chelford, Astle Hall* (VIII). TS in afternoon.—*Meltham, Harewood Lodge* (IX). TS from 7 to 8.30 p.m.—*Glasgow, Queen's Park* (XIV). TS.—*Woodlawn* (XXII). H; ·53 in. fell in an hour.

15th and 16th.—*Frome, Orchardleigh* (V). T.—*New Galloway, Glenlee* (XII). T.

16th.—*Muswell Hill* (I). L and T about 2 p.m.—*Wealdstone* (I). TS and H.—*Sheppey, Leysdown* (II). TS.—*Erith, Crossness* (II). T and L.—*Emsworth, Redlands* (II). S.W. gale.—*Campden, Hidcote* (VI). TS.—*Findern* (VII). TSS.—*Colmonell, Clachanton* (XIV). T and L.—*Moynalty, Westland* (XXI). H.

17th.—*Tavistock, Whitchurch* (V). S.W. gale; T and L.—*Douglas, Woodville* (XI). S.W. to N.W. gale.

18th.—*West Dean* (II). S.W. gale.—*Chelford, Astle Hall* (VIII). S.W. gale.—*Douglas, Woodville* (XI). N.W. gale.

19th.—*Emsworth, Redlands* (II). S.W. gale.—*Solva* (XI). S.W. gale.—*Ballachulish, Ardsheal* (XV). N.E. gale.

20th.—*Stamford, Collyweston* (III). An old walnut tree was struck by L and ignited and smouldered for some hours.—*Little Saxham* (IV). TS.—*E. Ruston Grange* (IV). TS; in one hour ·57 in. of R fell.—*Findern* (VII). TSS.

21st.—*Seathwaite Vicarage* (VIII). S on the upper fells.—*Rathmines, Leinster Road* (XXI). In 15 mins. ·23 in. of R fell.

22nd.—*Baldersby* (IX). S.

23rd.—*Colchester, Lexden* (IV). T and L.—*Tavistock, Whitchurch* (V). T.—*Horncastle, Bucknall* (VII). T.—*Hemingby* (VII). T.—*Findern* (VII). TS.—*Wath-on-Dearne* (IX). TS.—*Meltham, Harewood Lodge* (IX). TS from 2 to 2.30 p.m.—*Thixendale* (IX). TS.

23rd and 24th.—*E. Ruston Grange* (IV). TSS.—*Southport, Hesketh Park* (VIII). T.—*Goldsborough Hall* (IX). T.

24th.—*Sheppey, Leysdown* (II). In one hour ·42 in. of R fell.—*Colchester, Lexden* (IV). T.—*Folkingham, Horbling* (VII). A tremendous storm of H and R. After 12 mins., when the storm abated, ·75 in. had fallen.—*Brampton, Denton House* (X). Only ·01 in. of R fell in 25 days from this date.

25th.—*Baldersby* (IX). S.

26th.—*Coventry, Kingswood* (VI). Much havoc caused by frost; potatoes, kidney beans, strawberries and bedding plants killed.

26th—29th.—*Thixendale* (IX). Destructive frost at night.

27th.—*Ross, The Graig* (VI). TS.

29th.—*Southport, Hesketh Park* (VIII). Very fine solar halo.

JUNE.

1st.—*Ballachulish, Ardsheal* (XV). T and L.—*Crossmolina, Enniscoe* (XXII). H.

1st and 2nd.—*Invershin* (XIX). T and L.

2nd.—*Bettyhill* (XIX). TS.—*Watten, H.R.S.* (XIX). Heavy and prolonged TS.

3rd.—*Southport, Hesketh Park* (VIII). Solar halo.

5th.—*Ross, The Graig* (VI). Short TS at 3.30 p.m.

6th.—*Derry Castle* (XX). Heavy TS at 3 p.m., with H.

8th.—*Cahir, Duneske* (XX). TS.—*Kilkenny, Sion Villa* (XXI.) TS.

11th.—*Devonport, Rowdens Res.* (V). Absolute drought for 15 days ended.

16th.—*Oxford, Elsfield* (III)., *Kilkenny, Sion Villa* (XXI)., and *Belfast, Springfield* (XXIII). Absolute drought for 23 days ended.—*Cork, Wellesley Terrace* (XX). Absolute drought for 22 days ended.—*Romansleigh Rectory* (V). Absolute drought for 21 days ended.

17th.—*Doncaster, Wadworth* (IX). Absolute drought since May 25th.—*Chiddingfold* (II). and *Llwydiarth Esgob* (XI). Absolute drought for 25 days ended.—*Debtling, The Croft* (II)., *Bournemouth, Kempsey* (II)., *Emsworth, Redlands* (II)., *Colchester, Lexden* (IV)., *Woodbridge Abbey* (IV)., *Hawkedon Rect.* (IV)., *Danbury Rect.* (IV)., *Cheltenham, Naunton Park* (VI)., *Burghill Court* (VI)., *Ludlow, The Sheet* (VI)., *Newport, Edgmond* (VI)., *Gateacre, The Nook* (VIII)., *Southport, Park Crescent* (VIII)., *Beverley, Register House* (IX)., *Middleton-on-the-Wolds* (IX)., *Hurworth Grange* (X)., *Hurworth, Elcott* (X). and *Penmynydd Vic.* (XI). Absolute drought for 24 days ended.—*Amersham, The Plantation* (III)., *Henley-on-Thames, Highmore Vic.* (III)., *Ludgershall, Conholt Park* (V)., *Dartmoor, Lowery* (V)., *Kington, Gravel Hill* (VI)., *Middleton, Chirbury* (VI)., *Burton, Rangemoor* (VI)., *Alvechurch, The Uplands* (VI)., *Dowlais, Gwernllwyn* (XI)., *Pool Quay Vicarage* (XI). and *Abergwesyn Vic.* (XI). Absolute drought for 23 days ended.—*Maidstone, Bearsted* (II)., *Castle Ashby* (III)., *Cambridge, Benet Place* (III)., *Cherry Burton House* (IX). Absolute drought for 22 days ended.—*Mamhead Rect.* (V)., *Clifton, Pembroke Road* (VI). and *Wolverhampton, Tettenhall* (VI). Absolute drought for 21 days ended.—*Buntingford, Throcking Rect.* (III). Absolute drought for 19 days ended.—*Esthwaite Lodge* (VIII). Absolute drought for 16 days ended.—*Armathwaite Hall* (X). Absolute drought for 15 days ended.

18th.—*Emsworth, Redlands* (II)., *Eastgate, All Saints Vic.* (X)., *Kendal, Holmcroft* (X). and *Rossett, Trevalyn Hall* (XI). Absolute drought for 24 days ended.—*Brampton, Denton House* (X). Absolute drought for 16 days ended.—*Nottingham, Beeston Fields* (VII). The first R since May 24th.—*St. Michael's-on-Wyre Vic.* (VIII). In 24 days ending on this date only ·01 in. of R fell.—*Balquhidder, Stronvar* (XVI). T and L at 2.30 p.m.—*Miltown Malbay* (XX). Frost damaging potato haulms.

19th.—*Miltown Malbay* (XX). Cold N.E. gale.

20th.—*Cirencester, Further Barton* (VI). T and L.—*Campden, Hidcote* (VI). TS.—*Ross, The Graig* (VI). TS.—*Kings Heath, Cambridge Road* (VI). At 8.45 p.m. ·18 in. of R fell in 4 mins.—*Bolton,*

The Park (VIII). Moderate T and L.—*Southport, Hesketh Park* (VIII). TS.—*Seathwaite Vicarage* (VIII). TS.

21st.—*New Galloway, Glenlee* (XII). T and L. —*Colmonell, Clachanton* (XIV). T and L.—*Derry Castle* (XX). T, L and R after 2.30 p.m.

27th.—*Fordingbridge, Wood Green* (II). T and very large H.—*Tavistock, Whitchurch* (V). L to N.W.—*Penzance, St. Clare* (V). T and L.—*Cheadle, The Heath House* (VI). T from 2 p.m. Heavy storm of L and T at 8 p.m.—*Solva* (XI). T and L.—*Llandefaelog-fach* (XI). TS.—*Douglas, Woodville* (XI). TS with tremendous R in the evening.

28th.—*Kensington, Edith Road* (I). TS.—*Muswell Hill* (I). Heavy storm of L, T, H and R, 1·10 in.—*Capel, The Cottage* (II) TS.—*Farnham, The Bourne Vicarage* (II). Very severe TS with heavy H, the stones being about the size of marbles. R began about 4.45 p.m., and at 7.5 p.m. ·89 in. was measured, but much of the H is believed to have bounded out of the gauge.—*Farnham, Seale* (II). T and ·71 in. of R in 3 hours.—*Farnham, Short Heath Lodge* (II). Severe TS in afternoon, when ·95 in. of R fell, mostly within half-an-hour.—*Farnham, Dippen Hall* (II). A very severe TS with heavy R and H from 5 to 7 p.m. In less than 3 hours 2·27 in. fell.—*Pyrford Croft* (II). Heavy TS and 1·61 in. of R in a short time.—*Horsell, Lindisaye* (II). Showers began about 5.50 p.m.; at 6.50 p.m. a TS came on, and at 7.40 1·62 in. of R was measured, 1·50 in. of which may safely be said to have fallen in less than an hour.—*Windlesham, Erlwood* (II). R ·58 in., almost entirely during a severe TS between 6 and 8 p.m.—*Wallington* (II). T and L.—*Sheppey, Leysdown* (II). TS.—*Lewes, Saxonbury* (II). TS at a distance.—*Isfield Place* (II). TSS at 5.30, 8 and 10 p.m.—*Wickham, The Croft* (II). Extraordinary H storm, lasting a few minutes and extending over but a small area. Old inhabitants never remember H stones of such a size; ten weighed, directly after the storm, averaged half-an-ounce each. Comparatively little damage was done to glass, many of the H stones being flat and disc-like in shape. Horses out in the storm were bruised about the head, and a man's hat was cut through. The rattling of the H on the roofs in the village was heard over half-a-mile away.—*Botley, Hall Court* (II). In 15 minutes ·70 in. of H fell. No glass was broken here, but within a mile E. and W. large quantities were broken.—*West Dean* [*Salisbury*] (II). Severe TS with heavy H.—*Hartley Maudit Rectory* (II). Very severe TS; 2·20 in. of R fell in an hour-and-a-half.—*Alton, Ashdell* (II). TS.—*Broxbourne* (III). TS.—*Kensworth* (III). TS.—*Slough, Upton* (III).

TS.—*Oxford, Magdalen College* (III). The outer edge of a terrific TS passed over at 8 a.m.—*Swerford* (III). Heavy storm of T and L, but little R.—*Alderbury* (V). Very heavy R, 1·17 in. falling in about one hour.—*Mildenhall* (V). T and L.—*Calne, Calstone Rec.* (V). Severe TS with ·85 in. of R in 45 mins.—*Sturminster Marshall* (V). TS from 4.15 to 4.30 p.m. with very large H.—*Blandford, Whatcombe* (V). Very big H stones.—*Wimborne Minster, Horton* (V). Large H stones like broad beans, and much damage.—*Tavistock, Whitchurch* (V). T and L.—*Lynton, Rock House* (V). T and L.—*Campden, Hidcote* (VI). TS.—*Cirencester, Further Barton* (VI). T from 2 p.m.; T, L and R at 6.30 p.m.; trees struck.—*Cheltenham, Naunton Park Villas* (VI). Violent TS. Five persons were struck by L in Cheltenham, and a house was struck in the centre of the town.—*Cheltenham, Southam Villa* (VI). TS from 6.30 to 7.30 p.m.—*Ross, The Graig* (VI). Short but terrific TS from 3 to 3.15 p.m., with sheets of R. Six cattle killed under some elm trees.—*Burghill Court* (VI). In 25 mins. ·28 in. of R fell.—*Ludlow, Ashford* (VI). TS in afternoon.—*Ludlow* (VI). TS. Near Downton Castle 21 sheep were struck by L under an oak and killed outright. The sheep were found in every conceivable position, some on their backs; many starlings in the tree were also killed, and fell to the ground. A thin line marks where the tree was struck.—*Newport, Edgmond* (VI). The heaviest TS remembered, with 1·57 in. of R; 1·50 in. fell in 2 hours.—*Wem, Clive Vicarage* (VI). Heavy TS; a house near was struck.—*West Bromwich* (VI). In an hour-and-a-quarter 1·01 in. of R fell.—*Wolverhampton, Tettenhall* (VI). TS 4.45 to 9.15 p.m., with 1·05 in. of R.—*Tenbury, Rochford* (VI). TS and 1·17 in. of R in 55 mins.—*Bewdley, Winterdyne Gardens* (VI). Heavy TS, with 2·00 in. of R in 3 hours from 5 p.m.—*King's Heath, Cambridge Road* (VI). At 8.10 p.m. ·30 in. of R fell in 10 mins., and ·72 in. fell in 1 hour 43 mins.—*Coventry, Priory Row* (VI). TS about 9 p.m.—*Findern* (VII). TS in evening.—*Aughton Springs* (VIII). TS and ·85 in. of R between 5 and 6 p.m.—*Rochdale, Field Head* (VIII). In 11 minutes, at 7 p.m., ·20 in. of R fell.—*Southport, Hesketh Park* (VIII). TS.—*Wath-on-Dearne* (IX). TS.—*Meltham, Harewood Lodge* (IX). Rather severe TS from 7.30 to 8.30 p.m.—*Abergavenny, Dyne House* (XI). TS; ·34 in. of R fell in 20 mins. from 2 p.m.—*Llanvihangel Court* (XI). TS at 3 p.m., and H; ·72 in. of R fell in about 20 minutes.—*Meifod, Tan-y-fron* (XI). TS and 1·14 in. of R.—*Douglas, Woodville* (XI). Very severe TS with H, lasting five hours.—*Whithorn, Cutroach* (XII). During a

TS lasting 7 hours 1·10 in. of R fell.—*Rathmines, Leinster Road* (XXI). TS.

28th and 29th.—*Birchington, Thor* (II). T and L.

29th.—*Deal and Walmer W.W.* (II). R 2·60 in., of which 1·98 in. fell in two hours from 3 p.m.—*Eastry, Great Walton* (II). During a tremendous TS 2·49 in. of R fell between 3.30 p.m. and 8.30 p.m.—*Burgh Castle Rectory* (IV). In 15 mins. ·14 in. of R fell.—*Oswestry, The Mount Reservoirs* (VI). R 1·40 in. in about an hour-and-a-half.—*Kirkstead, Woodhall Spa* (VII). TS, during which 1·34 in. of R fell in three hours.—*Aigburth, Holmfield* (VIII). R ·81 in., falling in an hour.—*Baldersby* (IX). In less than half-an-hour ·90 in. of R fell.—*The Burn* [*Brechin*] (XVII). From 2.45 p.m. to 4 p.m. 1·25 in. of R fell.

30th.—*Berkhampstead, Northchurch* (III). T, and 1·22 in. of R.—*Kensworth* (III). TS.—*Datchworth Rectory* (III). T, and ·90 in. of R.—*Rendlesham Hall* (IV). T.—*Long Ashton* (V). TS.—*Clifton, Pembroke Road* (VI). TS.—*Cirencester, Further Barton* (VI). Sharp T, L and R to E. in the night.—*Cheltenham, Southam Villa* (VI). TS during the night.—*Dowlais, Gwernllwyn* (XI). T and L.—*Oakley Quarries* (XI). Great TS and very heavy R, 3·15 in.—*Miltown Malbay* (XX). Cold N. gale.

JULY.

1st.—*Little Saxham* (IV). TSS.—*E. Ruston Grange* (IV). TS.—*Uttoxeter, Brook House* (VI). T and 1·08 in. of R.—*Cheadle, The Heath House* (VI). T and L.—*Hemingby* (VII). T and L.—*Nottingham, Beeston Fields* (VII). Heavy TS; R ·83 in.—*Bolton, The Park* (VIII). T and L at 10 a.m.—*Cherry Burton House* (IX). In 4 hours 1·16 in. of R fell.—*Middleton-on-the-Wolds* (IX). In 20 minutes ·66 in. of R fell.

1st and 2nd.—*Campden, Hidcote* (VI). TSS.

3rd.—*Nottingham, Beeston Fields* (VII). Heavy TS with ·86 in. of R.—*Wath-on-Dearne* (IX). TS.

6th.—*Maidstone, Lower Tovil* (II). In 45 minutes 1·07 in. of R fell. At *Maidstone* ·84 in. fell, nearly all between 1.5 p.m. and 1.35 p.m.—*Cork, Wellesley Terrace* (XX). T and L.—*Cahir, Duneske* (XX). Between 11.30 a.m. and 3.30 p.m. 1·41 in. of R fell.

6th and 7th.—*Campden, Hidcote* (VI). TSS.

7th.—*Capel, The Cottage* (II). L.—*Godalming, Northanger* (II). In about 15 mins. ·51 in. of R fell.—*Odsey* [*Royston*] (III). T and L.—

Colchester, Lexden (IV). L.—*Southport, Hesketh Park* (VIII). Solar halo.—*Abergavenny, Dyne House* (XI). A TS, beginning at 3 p.m., developed at 3.15, and by 4.20 p.m. 1·14 in. of R had fallen.—*Pool Quay Vicarage* (XI). T and ·72 in. of R in 15 minutes.

8th.—*Birchington, Thor* (II). T and L; immense damage done by H round *Canterbury.—E. Ruston Grange* (IV). TS.

10th.—*Wath-on-Dearne* (IX). TS.

11th.—*Wallington* (II). L.—*Isfield Place* (II). L.—*West Dean* (II). Severe TS, with heavy H whitening the ground.—*Oxford, St. Giles* (III). L and T.—*Mildenhall* (V). T and L.—*Clifton, Pembroke Road* (VI). TS at night.—*Cirencester, Further Barton* (VI). T, L and R at night.—*Cheltenham, Southam Villa* (VI). TS at night.—*Ballindoney* (XXI). Great R storm, 1·31 in., doing damage to corn.

12th.—*Kensington, Edith Road* (I). Min. temp. 68°·3, exceeded only on August 18th, 1893, when 71°·3 was recorded.—*Emsworth, Redlands* (II). T and L.—*North Cadbury Rectory* (V). Short TS.—*Campden, Hidcote* (VI). TS.—*Ross, The Graig* (VI). T and L.—*Wath-on-Dearne* (IX). TS.—*Doncaster, Wadworth Hall* (IX). TS and ·77 in. of R in half-an-hour. H stones a quarter-of-an-inch in diameter smashed the vacuum radiation thermometer and did much damage. —*Knaresborough, Farnham* (IX). TS.—*Oughtershaw Hall* (IX). Terrific TS from 0.30 to 2 p.m.; R ·75 in.—*Wearhead* (X). TS.—*Brampton, Denton House* (X). TS. Heavy R from 1 p.m. to 5.30 p.m., 1·84 in. —*Forres, H.R.S.* (XVII). TSS.

15th.—*Plympton, Hemerdon* (V). Violent TS; R 1·31 in.

17th.—*Oxford, Magdalen College* (III). Vivid L and heavy T at 8 p.m.—*Oxford, St. Giles* (III). TS from 8 to 9 p.m. Very heavy R at Boar's Hill, 3 miles S., and a horse killed by L.—*Tamworth* (VI). In the afternoon a quantity of newly-made hay in a meadow at Middleton Hall was taken up by a whirlwind into the clouds and entirely lost sight of.—*Cheadle, The Heath House* (VI). Heavy T and L at 6 p.m.—*Drummore* (XIII). In 20 mins. ·62 in. of R fell.

17th and 18th.—*Goldsborough Hall* (IX). TSS.—*Knaresborough, Farnham* (IX). TSS.—*Maxwelton House* (XII). River in high flood, owing to very heavy R, about 3 miles up the valley. Much L.

18th.—*Wath-on-Dearne* (IX). TS.

19th.—*Llwydiarth Esgob* (XI). Very heavy R, 2·15 in. falling between 4.45 p.m. and 3 a.m. on 20th.

20th.—*Wallington* (II). T and L.—*Sheppey, Leysdown* (II). TS at night.—*Cheadle, The Heath House* (VI). Distant T and L.—*Bolton,*

The Park (VIII). L at 10 p.m.—*Southport, Hesketh Park* (VIII). L and T.—*Dowlais, Gwernllwyn* (XI). L.—*Abergwesyn Vicarage* (XI). Distant TS.—*Talarvor* (XI). Heavy TS with immense H stones; about 4 miles from here the H stones were about 3 inches in circumference; the storm covered an area 1 to 1½ miles wide and 6 to 7 miles long.—*Coolkelure* (XX). Heavy TS.

20th—22nd.—*Miltown Malbay* (XX). T and L.

20th—23rd.—*Isfield Place* (II). L and T each day.

21st.—*Cranleigh Common, Homefield Cottage* (II). TS.—*Capel, The Cottage* (II). TS.—*Alderbury* (V). L at 8 p.m.

21st and 22nd.—*Broadwindsor* (V). TSS.—*Ashburton, Druid* (V). TSS.—*Penzance, St. Clare* (V). T and L.—*Cork, Wellesley Terrace* (XX). T and L.

21st—23rd.—*Emsworth, Redlands* (II). T and L.

22nd.—*Wealdstone* (I). TS and 1·52 in. of R.—*Wealdstone House* (I). In 6 hours 30 mins. 1·48 in. of R fell.—*Wallington* (II). L.—*Birchington, Thor* (II). Severe T, L and R from 10 p.m. to midnight.—*Elstree, Aldenham House* (III). Between 3 a.m. and noon 1·74 in. of R fell, which is the greatest on record here.—*Broxbourne* (III). TS.—*Berkhampstead, Northchurch* (III). T; hardly any R before midnight; total fall 1·69 in.—*Witham, Terling Vicarage* (IV). Heavy TS, with 1·83 in. of R.—*Colchester, Lexden* (IV). TS.—*Cavendish* (IV). Between 4.30 a.m. and 3.30 p.m. 2·00 in. of R fell.—*Winterbourne Herringstone* (V). TS, and ·96 in. of R in 1 hour 30 mins.—*Dorchester Water Works* (V). In about an hour 2·56 in. of R fell.—*Kingsteignton* (V). One of the most severe TSS ever experienced. Out of 2·09 in. of R, 1·30 in. fell within 40 mins.—*Kenton, Southtown House* (V). In 45 mins. 1·20 in. of R fell.—*Romansleigh Rectory* (V). T and vivid L.—*Launceston, Altarnon* (V). T and L.—*North Cadbury Rectory* (V). T was heard about 4 p.m.; about 5 p.m. dangerous L was seen to E. and S. At 5.55 p.m. a grand R began, and by 6.45 more than ·80 in., out of a total of ·92 in., had fallen. The T and L were overhead; one flash appeared to rattle the whole roof, and caused the observer to feel a tremor such as he had not experienced before. At 5.30 p.m. two flashes of L appeared to be along the same track, one almost immediately after the other, followed by three flashes in two parallel and closely adjoining tracks.—*Ross, The Graig* (VI). L at 11 p.m.—*Solva* (XI). L.—*Llwydiarth Esgob* (XI). Sheep killed by L.—*Coolkelure* (XX). TS.—*Killarney, Woodlawn* (XX). TS, doing damage

to the chimney of the Constabulary barracks. R 1·72 in., nearly all in about 90 minutes.

22nd and 23rd.*—*Sheppey, Leysdown* (II). TSS. On the 23rd 1·53 in. of R fell in two TSS about 4 a.m. and midday; ·60 in. fell in half-an-hour.—*Chichester, Oaklands* (II). TS.—*St. Albans, The Grange* (III). TS and 1·20 in. of R.—*Braintree, Bocking, Fennes* (IV). R 2·48 in., practically within 24 hours.—*Sudbury, Friars Street* (IV). TSS and 2·35 in. of R.—*Darsham, Sibton* (IV). In about 30 hours 2·20 in. of R fell.

23rd.—*Kensington, Edith Road* (I). TS.—*Muswell Hill* (I). TS in early morning; R 1·49 in.—*Finchley, Etchingham Park* (I). TS between 4 and 7 a.m.—*Cranleigh Common, Homefield Cottage* (II). TS.—*Godalming, Northanger* (II). In less than half-an-hour ·75 in. of R fell.—*Guildford, Craigie, Merrow* (II). R 2·07 in.; almost, if not quite, the heaviest fall remembered. The drive was washed into deep ruts, and the gravel carried over plantations and lawn, the latter being covered with water. Roads in places were washed so as to be very bad travelling all the summer. The R was very welcome all the same.—*Horsell, Lindisaye* (II). TS.—*Tunbridge, Primrose Hill* (II). TS and ·40 in. of R in 8 mins.—*Riverhead Vic.* (II). R 1·48 in., mostly in 70 minutes from 10.30 a.m.—*Erith, Crossness* (II). Heavy TS at 2.30 a.m.—*Christchurch, Winkton Lodge* (II). Sudden flash of L and instant roll of T as if overhead at 10.45 a.m.—*Portsmouth, Milton* (II). Heavy T and L and 3.25 in. of R between 1.30 and 3.30 p.m.—*Kensworth* (III). TS from 5 to 7 a.m.—*Chelmsford, Springfield Place* (IV). R 2·30 in., the heaviest fall in three years.—*Norwich, Essex Street* (IV). T and 1·40 in. of R.—*E. Ruston Grange* (IV). TS.—*Winterbourne Herringstone* (V). In 15 mins. ·45 in. of R fell.—*Dorchester* (V). TS in the early morning with 2·40 in. of R in about 3 hours.—*Bere Regis Vicarage* (V). Heavy TS to S.E. Wareham Church Tower was struck by L.—*Blandford, Whatcombe* (V). Heavy TS.—*Exeter, Heavitree* (V). Heavy TS.—*Barry W.W., Biglis* (XI). Between 2.45 p.m. and 3.55 p.m. 2·50 in. of R fell.

24th.—*Horsley, Woodcote Lodge* (II). In 45 mins., between 11 a.m. and noon, 1·58 in. of R fell.

AUGUST.

3rd.—*Isfield Place* (II). L at night.—*West Dean* (II). Slight TS.—*Alderbury* (V). L.—*Ashburton, Druid* (V). TS; a tree struck by L at

* See also *Met. Mag.*, Aug., 1899, p. 101.

10.15 p.m.—*Dowlais, Gwernllwyn* (XI). T and L.—*Llandovery* (XI). T and L.—*Abergwesyn Vicarage* (XI). L at night.—*Derry Castle* (XX). L, T and R at night.—*Ballindoney* (XXI). Three distinct TSS from 7 p.m. to 3 a.m. ; the L was very vivid, but no R fell.—*Rathmines, Leinster Road* (XXI). Heavy TS.

3rd and 4th.—*Kilkenny, Sion Villa* (XXI). Severe TS from 7 p.m. on 3rd to 3 a.m. on 4th ; exceedingly vivid L.

3rd—5th.—*Solva* (XI). T and L.

3rd—8th.—*Miltown Malbay* (XX). T and L daily.

4th. *Penzance, St. Clare* (V). T, L and H.—*Meltham, Harewood Lodge* (IX). Rather severe TS from 6 to 8.15 p.m.—*Knaresborough, Farnham* (IX). T and L.—*Llanfrechfa Grange* (XI). T and L at 3 a.m. —*Cahir, Duneske* (XX). Distant TS.—*Markree Observatory* (XXII). TS.

5th.—*Capel, The Cottage* (II). TS.—*Birchington, Thor* (II). T and L. —*Isfield Place* (II). TS.—*Lexden* (IV). Distant T and L.—*Ashburton, Druid* (V). TS at night.—*Tavistock, Whitchurch* (V). L and T.— *Ross, The Graig* (VI). L.—*Chelford, Astle Hall* (VIII). Heavy TS about 9.30 p.m.—*Bolton, The Park* (VIII). L.—*Llandovery* (XI). T and L.—*Haverfordwest* (XI). Sharp but short TS between 5 and 6 a.m. The L struck the chimney of a house at Newton, near Llangwin, and killed a man sheltering in an outhouse. Three other men in the same outhouse escaped.—*Ballindoney* (XXI). Terrific TS in evening, lasting about an hour; four sheep were killed about 2 miles away.—*Rathmines, Leinster Road* (XXI). Heavy TS.— *Balbriggan, Laragh* (XXI). T, L and 2·32 in. of R.—*Galway, Queen's College* (XXII). T and L at night.

5th and 6th.—*Dowlais, Gwernllwyn* (XI). T and L.—*Killiney, Cloneevin* (XXI). Severe TS from 9 p.m. on 5th to 1 a.m. on 6th ; R 1·95 in.

6th.—*Nuneham Park Gardens* (III). Heavy TS.—*Gloucester, Hempsted* (VI). Severe TS; between 5.50 p.m. and 6.20 p.m. 1·43 in. of R fell, the great bulk in about half the time, probably at least an inch in 15 minutes. The storm literally boxed the compass, as proved by its entrance through every door of the house, beginning with that facing N.W. and working round through S.W., S.E. and N.E., back to N.W., and terminating with H.—*Wath-on-Dearne* (IX). TS.—*Llandefaelog-fach* (XI). In 40 minutes ·55 in. of R fell.— *Abergwesyn Vicarage* (XI). T and L.—*Pool Quay Vicarage* (XI). Absolute drought for 14 days ended.—*Markree Observatory* (XX). TS in early morning.

6th and 7th.—*Ross, The Graig* (VI). TSS.—*Dowlais, Gwernllwyn* (XI) T and L.

7th.—*West Dean* (II). Sharp TS.—*Basingstoke* (II). Short TS; only one flash of L and its immediate clap of T and a sprinkling of R. The L struck an oak tree, and injured the hand and arm of a man and the hand of a child.—*Oxford, Magdalen College* (III). T and heavy R from 2.30 to 3 p.m.—*Ashburton, Druid* (V). TS at night.—*Tavistock, Whitchurch* (V). TSS from 2.20 to 4.34 p.m., with a waterspout 4½ miles to N.N.E. at 3.52 p.m.—*Clifton, Pembroke Road* (VI). TS.—*Cheltenham* (VI). Very heavy R, lasting only about 2 hours. At *Prestbury* 3·00 in. fell. at *Battledown* 1·42 in., *Southam Villa* 1·39 in., *Heath Lodge* 1·12 in.—*Llanwrda, Dolaucothy* (XI). An abnormal fall of R; from 1.30 to 3.0 p.m. 2·08 in. fell, with another heavy plump about 5 p.m., making a total of 3·43 in. for 24 hours.—*Llandovery* (XI). T and very vivid L; R 1·38 in.—*Llandovery, Toun* (XI). R 1·21 in. in half-an-hour, and the greater part in less than 10 minutes.—*Haverfordwest* (XI). TS; two sheep killed by L.—*Galway, Queen's College* (XXII). L and T.

8th.—*Oxford, St. Giles* (III). TS with heavy R.—*Tavistock, Whitchurch* (V). L and T.—*Exeter, Heavitree* (V). TS.—*Launceston, Altarnon* (V). T and L.

10th.—*Thixendale* (IX). Aurora.

13th.—*Thixendale* (IX). Aurora.

14th.—*Lexden* (IV). Absolute drought for 19 days ended.—*Ashburton, Druid* (V). TS.—*Penzance, St. Clare* (V). T and L.—*Fort Augustus, St. Benedict's* (XVIII). Absolute drought for 17 days ended; the longest drought yet recorded.

15th.*—*West Dean* (II). Severe TS with heavy H.—*St. Albans, The Grange* (III). TS.—*Datchworth Rectory* (III). T and ·76 in. of R in 20 mins.—*Knebworth* (III). TS and ·80 in. of R in 19 mins.—*Hitchin, Bancroft* (III). In 30 mins. ·50 in. of R fell.—*Dorchester* (III). Heavy TS, lasting about an hour-and-a-half; R 2·37 in.—*Culham* (III). Very local TS; R 1·25 in.—*Pyrton Manor* (III). Violent TS; R 2·04 in.—*Nuneham Park Gardens* (III). Heavy TS and 2·15 in. of R.—*Oxford, Magdalen College* (III). Terrific TSS from 2.20 to 5 p.m. and 7 to 8 p.m.; R 1·10 in.—*Oxford, St. Giles* (III). Heavy TS; frequent vivid L and heavy R almost continuous from 2.30 to 7 p.m.; R 1·00 in.—*Holton Park* (III). R 1·07 in., preceded by 19, and followed by 12,

* See also *Met. Mag.*, Sept., 1899, p. 122.

rainless days.—*Burton Latimer Rectory* (III). Very heavy R for two or three hours; total 1·50 in.—*Oundle* (III). TS with 1·63 in. of R in half-an-hour from 6 p.m.—*Lexden* (IV). T and L.—*Sudbury, Friars Street* (IV). TS and ·49 in of R in 20 mins.—*Cavendish* (IV). In 18 mins. ·65 in. of R fell.—*Little Saxham* (IV). Very hot; severe TS in afternoon.—*Swaffham* (IV). TS and 1·52 in. of R.—*E. Ruston Grange* (IV). TS.—*Cromer, Northrepps Hall* (IV). Heavy H storm; R 1·22 in.—*Mildenhall* (V). T, L and R. A shock of wheat consumed by L.—*Gillingham* (V). Heavy TS with large H and 1·60 in. of R in 45 minutes from 2 p.m.—*Temple Combe Rectory* (V). Heavy H storm, many of the stones being the size of pigeon's eggs.—*Cirencester, Further Barton* (VI). Spurts of violent R, flashes of L and claps of T breaking off suddenly. A shed two miles away was set on fire.—*Cheltenham, Naunton Park Villas* (VI). TS.—*Cheltenham, Southam Villa* (VI). TS from 4.30 to 6.30 p.m.; for half-an-hour the R came down as a sheet; total 1·23 in.—*Stow-on-the-Wold, Oddington* (VI). R 1·18 in.; 1·15 in. falling in 65 mins. from 5.30 p.m. Many houses flooded.—*Campden, Hidcote* (VI). TS.—*Ludlow, Ashford* (VI). TS.—*Salt Vicarage* (VI). Heavy TSS for 3 hours; ·25 in. of R fell in 15 mins.—*Tenbury. Rochford* (VI). Between 3 and 5 p.m. 1·08 in. of R fell.—*Woodchester, Culver House* (VI). TS between 6 and 7 p.m.

15th and 16th.—*Tongue, Talmine* (XIX). Strong W.S.W. gale.

19th.—*Uxbridge, Harefield Park* (I). T and L.

24th.—*Wimborne Minster, Horton* (V). A period of 34 days without R, ended.—*Cork, Wellesley Terrace* (XX). Absolute drought for 16 days ended.

25th.—*St. Albans, The Grange* (III). Max. temp. 85°·9, the highest in the year.—*Devonport, Rowdens Res.* (V). Absolute drought for 20 days, and partial drought for 43 days, ended.—*Tavistock, Whitchurch* (V). Absolute drought for 17 days, and partial drought for 34 days, with ·21 in. of R, ended.—*Swansea, St. James's Gardens* (XI). Absolute drought for 18 days ended, and in 42 days ending on the same date only ·47 in. of R fell.—*Colmonell, Clachanton* (XIV). T and L.—*Craigend Castle* (XV). TS.—*Ballachulish, Ardsheal* (XV). T and L.—*Stronvar* (XVI). T and L.—*Coupar Angus* (XVI). TS.—*Forres, H.R.S.* (XVII). TS.—*Drumnadrochit* (XVIII). Sharp TS.—*Invershin* (XIX). T and L.—*Watten, H.R.S.* (XIX). TS at night.—*Tongue, Talmine* (XIX). T and very frequent L.—*Bettyhill* (XIX). T and much L from 8 to 10 p.m.

26th.—*Emsworth, Redlands* (II). Partial drought for 34 days with

·03 in. of R ended.—*Hurworth Grange* (X). Partial drought for 32 days with ·27 in. of R ended.—*Sunderland, W. Hendon House* (X). Partial drought for 35 days ended.—*Dowlais, Gwernllwyn* (XI). and *Caerwnon* [*Builth*] (XI). Absolute drought for 19 days ended.

27th.—*Dartmoor, Lowery* (V). Absolute drought for 23 days, and partial drought for 36 days, ended.—*Wath-on-Dearne* (IX). TS.—*Meltham, Harewood Lodge* (IX). TS from 10.55 to 11.30 a.m. R ·84 in. in 2 hours 15 mins.—*Halifax, S. Owram* (IX). R 1·10 in., of which 1·07 in. fell in 1 hour 50 mins.—*Killarney, Woodlawn* (XX). TS.—*Miltown Malbay* (XX). T and L.

27th and 28th—*E. Ruston Grange* (IV). TSS.

27th—31st.—*Dowlais, Gwernllwyn* (XI). T and L.

28th.—*Finchley, Etchingham Park* (I). Partial drought for 37 days with ·27 in. of R, ended.—*Alton, Ashdell* (II). TS.—*Alderbury* (V). T and ·44 in. of R in an hour.—*Ashburton, Druid* (V). TS.—*Kington, Gravel Hill* (VI). In 50 days ending on this date only ·46 in. of R fell.—*Gateacre, The Nook* (VIII). Partial drought for 37 days ended.—*Southport, Hesketh Park* (VIII). TS.—*Goldsborough Hall* (IX). Severe TS.—*Solva* (XI). T and L.—*Pool Quay Vicarage* (XI). Partial drought for 49 days with ·39 in of R ended—*Moniaive, Maxwelton House* (XII). Heavy TS with 1·02 in. of R.—*Cork, Wellesley Terrace* (XX). T and L.

29th.—*Seathwaite Vic.* (VIII). L at night.—*Wath-on-Dearne* (IX). TS.—*Llanfrechfa Grange* (XI). T and L.—*Monmouth, The Hendre* (XI). TS in evening, and 1·05 in. of R.—*Llandefaelog-fach* (XI). T and L.—*New Galloway, Glenlee* (XII). L.

29th and 30th.—*Dowlais, Gwernllwyn* (XI). L and T.

30th.—*Wickham, The Croft* (II). TS; ·75 in. of R fell in 30 mins.—*Bishops Waltham, Northbrook House* (II). In half-a-hour ·75 in. of R fell.—*Swerford* (III). TS with heavy R and H.—*Bloxham Grove* (III). TS.—*Pitsford, Sedgebrook* (III). TS.—*Ashburton, Druid* (V). TS.—*King's Heath, Cambridge Road* (VI). In 14 mins. ·25 in. of R fell at 0.45 p.m.—*Southport, Hesketh Park* (VIII). TS.—*Forres, H.R.S.* (XVII). TS with 1·17 in. of R.

30th and 31st.—*Chelford, Astle Hall* (VIII). TSS with much R.

31st.—*Sudbury, Friars Street* (IV). In 7 mins. ·19 in. of R fell.—*E. Ruston Grange* (IV). TS.—*Coventry, Priory Row* (VI). Distant L at night.

SEPTEMBER.

1st.—*Isfield Place* (II). T and L.—*Lexden* (IV). Partial drought for 40 days with ·38 in. of R ended.—*Brampton, Denton House* (X). T and L.—*Ballindoney* (XXI). Between 1 and 3 p.m. ·72 in. of R fell.

2nd.—*Swerford* (III). T and L. An elm standing on the S. side of a clump of beech, oak and elm, was struck by L at the top on the N.W., the electric fluid in its course downwards taking a regular sweep round to the S.E., burying itself in the centre of a spur or root, making a round hole about an inch in diameter and four deep. On the N.W. side the bark was just grazed for about 10 feet from the ground.—*Colchester, Lexden* (IV). T and L.—*E. Ruston Grange* (IV). TS.

4th.—*Ballachulish, Ardsheal* (XV). Gale from S.

5th.—*Isfield Place* (II). L at night.—*Christchurch, Winkton Lodge* (II). Heavy TS. 1·86 in. of R fell between 8 a.m. and 10 a.m.; the ground was so dry that the R lay like a lake on the lawn and flowed in streams towards the house, none being absorbed.—*Woodbridge Abbey* (IV). Partial drought ended; 44 days with ·30 in. of R.—*Swanage, Royal Victoria Hotel* (V). Heavy TS from 6.0 to 9.30 a.m. with 2·21 in. of R, the heaviest fall for many years.—*Broadwindsor* (V). TS.—*Ashburton, Druid* (V). TS at night.—*Llandefaelog-fach* (XI). Unprecedented R from 3 p.m. to 4.15 p.m., 1·50 in. falling in that time.

6th.—*Kensington, Edith Road* (I). Heavy TS about noon.—*London, Strand, W.C.* (I). R 1·09 in., ·98 in. falling in half-an-hour.—*London, City Road* (I). In half-an-hour ·86 in. of R fell.—*Capel, The Cottage* (II). TS and ·51 in. of R in 45 minutes at noon.—*Abinger Hall* (II). Severe TS from 11.30 a.m. to 0.30 p.m., preceded by almost total darkness.—*Dorking, High Ashurst* (II). T and heavy R and complete darkness for half-an-hour at midday.—*Betchworth, The Holmes* (II). In 20 mins. ·61 in. of R fell.—*Kenley, Hazelea* (II). In one hour ·61 in. of R fell.—*Horsell, Lindisaye* (II). TS.—*Wallington* (II). TS.—*Wimbledon Sewage Works* (II). Between noon and 0.15 p.m. the recording rain-gauge registered a fall of ·82 in.—*Seven Oaks, Chevening Gardens* (II). R ·96 in. in a terrific storm which lasted only about 20 mins.—*Bickley, Elmhurst* (II). In 25 mins. ·72 in. of R fell.—*Erith, Crossness* (II). Heavy TS with darkness at noon; ·37 in. of H and R fell in 20 mins.—*Isfield Place* (II). T and L.—*Bournemouth, Kempsey* (II). Severe TS. R fell from 6.30 a.m. to 10.0 a.m., and was

heaviest from 8.30 to 9.30 a.m. At 9 a.m. 1·35 in. was measured, and up to 10 a.m. the fall was 1·75 in. Roads and basements were flooded, and the lower pleasure gardens submerged. Houses were struck by L in Grove Road and Stewart Road.—*Christchurch, Mudeford* (II). Between 9.0 and 10.15 a.m. 1·30 in. of R fell in a TS.—*Leyton, Lea Bridge Road* (IV). Nearly ·70 in. of R fell in 18 mins.—*Poole, Parkstone* (V). In the evening of 5th L was seen on all the Western half of the horizon; at 3 a.m. on 6th distant T was heard. The storm worked up from W., and about 5.45 a.m. R fell in large drops; the L was bright and the T loud. About 6.30 a.m. the R commenced in earnest, the TS coming nearer, and by 8.30 was quite near; at 9 a.m. the R measured 2·06 in. At 10.15 the R, which for half-an-hour had been light, ceased, and ·25 in. more was measured. The storm passed away to E., and T was heard till about 11 a.m. In the half-hour ending 9 a.m. ·70 in. fell.—*Bere Regis, Bloxworth Rectory* (V). Severe TS. At 8 a.m. L struck a small apple-tree, 100 yards from the house; it was surrounded 20 or 30 feet off by others much taller and some four times its diameter, but none of these were touched.—*Cirencester, Further Barton* (VI). Great heat, T, L and R.—*Pembridge, Marston* (VI). In 45 minutes ·25 in. of R fell.—*Shifnal, Weston Park* (VI). At 5.30 p.m. it became very dark, and heavy drops of R fell, quickly followed by T and L, which lasted about 20 minutes, being accompanied by torrents of R, which continued till 9 p.m. A large ash in the park was struck. 2·14 in. of R fell entirely between 5.30 and 9 p.m.—*West Bromwich* (VI). In the afternoon 1·02 in. of R fell in two hours.—*Findern* (VII). TS with ·79 in. of R.—*Dowlais, Gwernllwyn* (XI). T, L and fog.

6th and 7th.—*Haslemere, Hazelhurst* (II). TSS, very heavy on 7th from 1 p.m. to 4 p.m. Torrents of R, 1·50 in. in less than an hour; total fall 1·70 in. H the size of walnuts; holes 3 feet deep were washed out in walks; turnips were brought down from a field a third-of-a-mile away. Water collected in a sloping meadow and poured over a wall 3 feet high in a cataract.—*Cranleigh Common, Homefield Cottage* (II). TSS.—*Wimborne Minster, Horton* (V). TSS. On 6th ·65 in. of R fell in 4 hours, and on 7th ·71 in. in 1 hour.

6th—8th.—*Wisbech, Elm* (III). Between 6 a.m. on 6th and about 2.30 a.m. on 8th 2·99 in. of R fell.

7th.—*Capel, The Cottage* (II). TS.—*Midhurst, Borden Wood* (II). Between 3 and 4 p.m. more than 1·25 in. of R fell.—*Petworth Park* (II). Heavy TS and 2·56 in. of R in 1 hour 40 mins.—*Isfield Place*

(II). L and T.—*Petersfield, Fairley* (II). TS of unusual violence from 2.45 p.m. to 4 p.m.; R 2·21 in.—*Culham Vic.* (III). In half-an-hour ·48 in. of R fell.—*Steeple Aston* (III). In 25 mins. ·52 in. of R fell.—*Maxey Vicarage* (III). T and 1·02 in. of R.—*Blandford, Whatcombe* (V). Heavy TS.—*Cirencester, Further Barton* (VI). TS and great darkness between 11 a.m. and noon; in 35 mins. 1·23 in. of R fell.

14th.—*Ballindoney* (XXI). Perfect lunar rainbow seen in N.E. at 10.55 p.m.

15th—30th.—*St. Albans, The Grange* (III). R daily, excepting 22nd.

16th.—*Capel, The Cottage* (II). TS.—*Horsell, Lindisaye* (II). TS.—*Birchington, Thor* (II). T and L at 3 p.m.—*Isfield Place* (II). TSS at 4.30 and 5.30 p.m.—*Colchester, Lexden* (IV). Slight TS.—*Chipping Campden, Hidcote* (VI). TS.—*King's Heath, Cambridge Road* (VI). At 11.15 a.m. ·40 in. of R fell in 14 minutes.

17th.—*Tavistock, Whitchurch* (V). L.—*Ballachulish, Ardsheal* (XV). T and L.—*Invershin* (XIX). T and L.

17th and 18th.—*Brampton, Denton House* (X). T and L.

18th.—*Tongue, Talmine* (XIX). W. and S.W. gale, with T, L and H.

18th and 19th.—*Douglas, Woodville* (XI). W.N.W. gale.

19th and 20th.—*Bolton, The Park* (VIII). H.

20th.—*Macclesfield, The Park* (VIII). TS and H.—*Markree Observatory* (XXII). H.

21st and 22nd.—*Tongue, Talmine* (XIX). Strong N. gales.

22nd.—*Keswick, Shu-le-crow* (X) The first S of the winter on Skiddaw.—*Brampton, Denton House* (X). T and H.—*Markree Observatory* (XXII). Graupel.

23rd.—*Bolton, The Park* (VIII). T, L and H.—*Meltham, Harewood* (IX). T and L from 1.40 to 2.0 p.m.—*New Galloway, Glenlee* (XII). H.—*Colmonell, Clachanton* (XIV). H, T and L.

24th.—*Douglas, Woodville* (XI). H.—*Markree Observatory* (XXII). Graupel.

25th.—*Drumnadrochit* (XVIII). Aurora.

26th.—*Isfield Place* (II). T and L between 6 and 7 p.m.—*West Dean* (II). Heavy S.W. gale, veering to N.W.—*Whatlington, Pyrton Manor* (III). H.—*Abergwesyn Vicarage* (XI). T and L at night.—*Markree Observatory* (XXII). T about 5 a.m. and graupel.

26th—28th.—*Emsworth, Redlands* (II). T and L daily.

27th.—*Finchley, Etchingham Park* (I). Heavy storm of H and R about 2 p.m. Frequent L and T between 6.35 and 7 p.m.—*Horsell,*

Lindisaye (II). TS.—*Wallington* (II). T and L.—*Wisbech, Elm* (III). Sharp TS at 5 p.m., with heavy H which lay on the ground for an hour.—*Colchester, Lexden* (IV). Sharp TS and H.—*Sudbury, Friars Street* (IV). TS.—*E. Ruston Grange* (IV). TS.—*Tavistock, Whitchurch* (V). L.—*Ross, The Graig* (VI). T, L and H at 4.30 p.m.—*Dowlais, Gwernllwyn* (XI). H, R and L.—*Llandovery* (XI). T and H.—*Llandefaelog-fach* (XI). T and H.—*Abergwesyn Vicarage* (XI). T, L and H.

27th and 28th.—*Isfield Place* (II). L.—*Broxbourne, Stafford House* (III). TSS.—*Solva* (XI). H.

28th.—*Finchley, Etchingham Park* (I). L between 4.30 and 5 p.m.—*Abinger Hall* (II). Very heavy TS from 4 to 5 p.m.—*Dorking, High Ashurst* (II). A severe H storm, doing some damage.—*Lewes, Bedford Lodge* (II). TS.—*West Dean* (II). TS and H.—*Ashburton, Druid* (V). H and T.—*Cirencester, Further Barton* (VI). T, L and R.—*Horncastle, Hemingby* (VII). L and T.—*Wath-on-Dearne* (IX). TS.—*Kilkenny, Sion Villa* (XXI). L about 10 p.m.

28th and 29th.—*Cahir, Duneske* (XX). Soft H.

29th.—*Dorking, West Street* (II). Between 2 p.m. and 10 p.m. nearly two inches of R fell.—*Windlesham, Erlwood* (II). R 1·09 in. in 8 hours. This was the first R that really got much below the surface of the ground since June. The drought had not only burnt up the pastures, but was severely felt by many shrubs.—*Sheppey, Leysdown* (II). A steady downpour for twelve hours; ·94 in.—*Worthing, Ellesmere* (II). R 2·65 in. It was rather local, and varied greatly. Between 1 p.m. and 7.45 p.m. 2·49 in. fell, and the R was heaviest from 4.30 p.m. to 6 p.m.—*St. Albans, The Grange* (III). TS.—*Grays Sewage Works* (IV). In half-an-hour ·50 in. of R fell, and 1·39 in. in about 2 hours.—*Harwich, Ramsey* (IV). R 1·12 in.; the greatest fall in 24 hours since June 10th, 1896.—*Lowestoft, The Clyffe, Corton* (IV). Heavy S.E. gale at night, causing loss of life and property at sea.—*Watton* (IV). TS; 1·27 in. of R.—*Tavistock, Whitchurch* (V). L.—*Flushing, Trefusis* (V). T and heavy R at night; 1·20 in.—*Solva* (XI). T and L.—*Abergwesyn Vicarage* (XI). L at night.—*Mullingar, Belvedere* (XXI). H.

29th and 30th.—*Seathwaite Vicarage* (VIII). Gale from N.—*Miltown Malbay* (XX). Sheet L and H.

30th.—*Kearsney Abbey* (II). Severe TS with H about 6.15 p.m.—*Lewes, Bedford Lodge* (II). TS.—*Hastings, Hollington* (II). H and T.—*Isfield Place* (II). T and L.—*Tavistock, Whitchurch* (V). L.—*Romansleigh Rectory* (V). In 1 hour 30 minutes ·70 in. of R fell.—*Bolton, The*

Park (VIII). T and L.—*Ballachulish, Ardsheal* (XV). Gale from N.E. —*Coupar Angus* (XVI). TS and 2·15 in. of R.—*Cork, Wellesley Terrace* (XX). Min. temp. 31°·0, being the first frost in September in 17 years.—*Rathmines, Leinster Road* (XXI). TS.

OCTOBER.

1st.—*Emsworth, Redlands* (II). T and L.—*Old Windsor, Beaumont College* (II). R 1·51 in.; ·30 in. fell from 8 a.m. to 1 p.m., 1·00 in. from 2 p.m. to 4.20 p.m., and ·21 in. during the night.—*St. Albans, The Grange* (III). TS; R 1·05 in.—*Kensworth* (III). Heavy TS from 3 to 4 p.m.—*Hitchin, Bancroft* (III). R 1·66 in.; the heaviest fall in 24 hours since July 17th, 1890.—*Slough, Upton* (III). R 1·37 in. Subdued T heard.—*Oxford, St. Giles* (III). T, R and H.—*Swerford* (III). A heavy storm of T and L for about an hour in the afternoon. The T was incessant and the L very vivid.—*Maxey Vicarage* (III). T and 1·16 in. of R.—*Wisbech, Elm* (III). TS and 1·22 in. of R. —*Shalbourne, West Court* (V). R 1·39 in.; a very heavy storm in the afternoon. A whirlwind two miles to the S. blew a hayrick, weighing some 20 or 30 tons, completely over.—*Ludlow, Ashford* (VI). Very wet; R 1·60 in.—*Nottingham, Beeston Fields* (VII). Heavy continuous R; 1·11 in.—*Seathwaite Vicarage* (VIII). Strong N. gale.—*Knaresborough, Farnham* (IX). R 1·52 in.; the heaviest fall since October 14th, 1892.—*Douglas, Woodville* (XI). Furious E.N.E. gale. Midnight sailings of steamers abandoned, and three schooners wrecked in harbour.

1st and 2nd.—*Middlesborough, Ormesby* (IX). R commenced at 3 p.m. on 1st and ceased at 11.30 a m. on 2nd; total fall 2·23 in. The river Swale was heavily flooded, and overflowed its banks in many places. The Tees was fully 2 feet higher than for half-a-dozen years.

3rd.—*Wentworth Woodhouse* (IX). Sixteen consecutive wet days ended; R 4·15 in.

11th.—*Lexden, Hill House* (IV). Solar halo and three parhelia at 5 p.m.—*Tavistock, Whitchurch* (V). Parhelia and lunar halo.

12th.—*Cirencester, Further Barton* (VI). Sharp shower at 3 p.m. with T.—*Salt Vicarage* (VI). From 1.57 p.m. to 2.7 p.m. ·40 in. of R fell.—*Abergwesyn Vicarage* (XI). Heavy showers and H.—*Tongue, Talmine* (XIX). N. gale and showers of H.

12th and 13th.—*Southport, Hesketh Park* (VIII). L.

13th.—*Chelford, Astle Hall* (VIII). Heavy H storm.—*Watten, H.R.S.* (XIX). Stormy, with showers of R and H.

15th.—*Tavistock, Whitchurch* (V). Gale from E.S.E.

20th.—*North Cadbury* (V). Solar halo at 4 p.m.

20th–22nd.—*Oxford, Magdalen College* (III). Moderately thick fog.

21st.—*Solva* (XI). Lunar halo.

22nd and 23rd.—*Solva* (XI). Fog.

25th—November 9th.—*Crondall, Warren Corner* (II). On 12 wet days in this period 6·77 in. of R fell.

26th and 27th.—*Capel, The Cottage* (II). L.

27th.—*West Dean* (II). Very heavy R for 18 hours; total 2·04 in.

28th.—*Capel, The Cottage* (II). TS.—*New Galloway, Glenlee* (XII). T.—*Bettyhill* (XIX). Strong westerly gale.

29th.—*Portinscale* (X). Between 9 a.m. and 9 p.m. 1·84 in. of R fell.—*Ballachulish, Ardsheal* (XV). Whole gale from S. to S.W.—*Cork, Wellesley Terrace* (XX). W.S.W. gale.

29th and 30th.—*Tongue, Talmine* (XIX). W. gales.

30th.—*Bolton, The Park* (VIII). T and L at 10 p.m.—*Solva* (XI). L.—*New Galloway, Glenlee* (XII). T and L.—*Colmonell, Clachanton* (XIV). T and L.—*Invershin* (XIX). Cold S.W. gale, with sleet.—*Watten, H.R.S.* (XIX). S.W. to N.W. gale, with R and H.

31st.—*Bolton, The Park* (VIII). T and L at 5 a.m.

NOVEMBER.

1st.—*Douglas, Woodville* (XI). W. gale at night.—*Ballachulish, Ardsheal* (XV). S. gale.

1st—10th.—*St. Albans, The Grange* (III). R daily; from 2nd to 5th, 2·74 in. fell.

2nd.—*Sudbury, Friars Street* (IV). L.—*Wilmslow, Parksyde* (VIII). The warmest November day in 36 years; max. temp. 62°·5. November 15th, 1876, was warmer for a few hours, but not so warm as a whole.—*Southport* (VIII). In 7 minutes from 3.23 p.m. ·26 in. of R fell, no less than ·21 in. falling in exactly 3 minutes.—*Southport, Hesketh Park* (VIII). L and T.—*Llanvihangel Court* (XI). S.W. gale.—*Galway, Queen's College* (XXII). L.

2nd and 3rd.—*Haslemere, Lower Street* (II). From 5 p.m. on 2nd to 9 a.m. on 3rd, 2·22 in. of R fell.

2nd—5th.*—*Throcking Rectory* (III). R 2·75 in., or an average of ·69 in. per diem.

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* See also *Met. Mag.*, Nov., 1899, p. 153.

2nd—10th.—*Whithorn, Cutroach* (XII). Strong S. and S.W. gales and heavy R.

3rd.—*Kensington, Edith Road* (I). Heavy S.W. gale.—*Haslemere, Lower Street* (II). Between 5 p.m. and 9 a.m. on 4th, 2·22 in. of R fell.—*Birchington, Thor* (II). S.W. gale.—*Lewes, Saxonbury* (II). S.S.W. gale.—*Bishops Waltham, Northbrook House* (II). R 1·62 in.; the greatest fall on record.—*Long Ashton* (V). Gale and ·80 in. of R between 2.0 and 6.20 p.m.—*Ross, The Graig* (VI). Gale; very violent at 3.15 p.m.—*Findern* (VII). Great S.W. gale.—*Seathwaite Vicarage* (VIII). Violent S.W. gale.—*Thixendale* (IX). A hurricane with H. —*Armathwaite Hall* (X). Severe S.E. gale and heavy R; great damage.—*Brampton, Denton House* (X). Strong gale, damaging many houses.—*Portinscale* (X). Between 9 a.m. and 3 p.m. 1·71 in. of R fell.—*Llwydiarth Esgob* (XI). TSS.—*Douglas, Woodville* (XI). Furious S.S.E. to W.S.W. gale.—*Gargunnock* (XV). Fully 1·75 in. of R fell within 12 hours.—*Ballachulish, Ardsheal* (XV). S. gale.—*Mallow, Summer Hill* (XX). In 35 minutes ·45 in. of R fell, of which fully ·33 in. fell in 15 minutes.—*Cahir, Duneske* (XX). Strong S.W. gale. —*Kilkenny, Sion Villa* (XXI). In 20 minutes from 10.15 a.m. ·40 in. of R fell.

3rd and 4th.—*Emsworth, Redlands* (II). S.W. gale.

3rd—9th.—*Weybridge, Field Place* (II). The wettest week in 25 years; R 3·79 in.

4th.—*Cheltenham, Southam Villa* (VI). The warmest November day for 22 years; temp. at 9 p.m. 61°·0.—*Seathwaite Vicarage* (VIII). Stormy, with 2·22 in. of R and floods.—*Douglas, Woodville* (XI). S.S.W. gale at night.—*Ballachulish, Ardsheal* (XV). Strong S. to S.W. gale.

5th.—*Chiddingstone Rectory* (II). R 1·97 in.; the greatest fall in 24 hours in 6 years.—*Wakefield, Stanley Grange* (IX). Shade temp. 62°·3 at 11 p.m.—*Markree Observatory* (XXII). Distant L.

5th—7th.—*Isfield Place* (II). R on 5th 2·04 in., and on 7th 1·16 in., causing a flood on the latter day.

6th —*New Galloway, Glenlee* (XII). H.

6th and 7th.—*Douglas, Woodville* (XI). S.W. gale.—*Invershin* (XIX). S.E. gale.

7th.—*Emsworth, Redlands* (II). W. gale.—*Tavistock, Whitchurch* (V). S.S.W. gale, L and heavy R.—*Findern* (VII). TS.—*Portinscale* (X). In 10 hours 2·45 in. of R fell.—*Llanfrechfa Grange* (XI). S.W. gale.—*Llanvihangel Court* (XI). S.W. gale.—*Brecknock Barracks* (XI).

Strong gale from S. with heavy R.—*Abergwesyn Vicarage* (XI). T and L at night.—*Ballachulish, Ardsheal* (XV). S.W. gale.—*Cork, Wellesley Terrace* (XX). L.—*Kilkenny, Sion Villa* (XXI). Between 9 a.m. and 1 p.m. ·40 in. of R fell.

7th and 8th.—*Solva* (XI). L.

8th.—*Capel, The Cottage* (II). TS.—*Erith, Crossness* (II). Much L at night.—*Emsworth, Redlands* (II). T and L from 6 to 11 p.m.—*Oxford, St. Giles'* (III). Distant L at 6 p.m.—*Sudbury, Friars Street* (IV). L.—*Ashburton, Druid House* (V). T, L and H in the evening.—*Cirencester, Further Barton* (VI). T, L and H.—*Southport, Hesketh Park* (VIII). L.—*Brampton, Denton House* (X). T, L and R. Rockcliffe Church, about 14 miles west from here, was destroyed by L.—*Dowlais, Gwernllwyn* (XI). T, L, R and H.—*Abergwesyn Vicarage* (XI). H and L.

9th—11th.—*Markree Observatory* (XXII). H.

10th.—*Llanfrechfa Grange* (XI). S.W. gale.—*Douglas, Woodville* (XI). S.W. gale.—*Ballachulish, Ardsheal* (XV). S.E. to W. gale.—*Watten, H.R.S.* (XIX). S.E. gale.

11th.—*Lowestoft, The Cliffe, Corton* (IV). Heavy storm of H and wind at 2.30 p.m., with T and L.—*Douglas, Woodville* (XI). Furious W.N.W. gale, with H and sleet. The boat from Liverpool took eight-and-three-quarter hours.—*New Galloway, Glenlee* (XII). Heavy H and T at 1.40 p.m.—*Colmonell, Clachanton* (XIV). H.—*Invershin* (XIX). S.W. gale.

12th.—*Lewes, Bedford Lodge* (II). R 2·12 in.; the heaviest in 24 hours since the record commenced 31 years ago.

18th.—*Oxford, Magdalen College* (III). Very thick fog at night.—*Coventry, Priory Row* (VI). Dense fog.—*New Galloway, Glenlee* (XII). Dense fog all day.

18th and 19th.—*Ross, The Graig* (VI). Dense fog.

19th.—*Wellington, The Avenue* (V). Very thick fog.—*North Cadbury Rectory* (V). Dense fog.

23rd.—*Dowlais, Gwernllwyn* (XI). L.

27th.—*Dartmoor, Lowery* (V). Absolute drought for 16 days ended.

29th.—*Kilkenny, Sion Villa* (XXI). Absolute drought for 15 days ended.

30th.—*Danbury Rectory* (IV). Absolute drought for 20 days ended.—*Henley-on-Thames, Highmore Vicarage* (III), and *Dowlais, Gwernllwyn* (XI). Absolute drought for 19 days ended.—*Maidstone, Bearsted* (II), *Woodbridge Abbey* (IV) and *Ludgershall, Conholt Park* (V).

Absolute drought for 15 days ended.—*Mildenhall* (V). Dust blowing on flint roads.

DECEMBER.

5th and 6th.—*Birchington, Thor* (II). Thick fog.

6th.—*Blandford, Whatcombe* (V). Thick fog.

7th.—*Oxford, Magdalen College* (III). Thick fog.—*Coventry, Priory Row* (VI). Dense fog.—*Armathwaite Hall* (X). Bassenthwaite Lake frozen.—*Markree Observatory* (XXII). Thick fog all day.

10th.—*Keswick Lodge* (IV). S.—*Dartmoor, Lowery* (V). Partial drought for 29 days ended.—*Baldersby* (IX). S 1 inch deep.—*Douglas, Woodville* (XI). Hills covered with S.

10th and 11th.—*Birchington, Thor* (II). S, yielding ·17 in.—*E. Ruston Grange* (IV). S two inches deep.—*Knaresborough, Farnham* (IX). S about four inches deep.—*Lilliesleaf, Riddell* (XII). S.—*St. Boswells, Elliston* (XII). S.—*Broughty Ferry, Douglas House* (XVI). S.

10th—12th.—*Reigate, Woodhatch Lodge* (II). S daily.—*Broxbourne* (III). S.

10th—13th.—*Horncastle, Bucknall* (VII). S.—*Hemingby* (VII). S daily.

10th—14th.—*Hodsock Priory* (VII). S daily, the min. temp. on snow on 14th being —6°·7.

11th.—*Wallington* (II). S an inch deep, and lay for several days.—*Sheppey, Leysdown* (II). Four hours' S, and freezing all day.—*Clifton, Pembroke Road* (VI). About two inches of S at night.—*Pembridge, Marston* (VI). S storm.—*Chester, Christleton Hall* (VIII). Five inches of S.—*Cartmel, Broughton Hall* (VIII). S, yielding ·42 in.—*Broughton-in-Furness* (VIII). S, averaging about four inches in depth.—*Hawkshead, Esthwaite Lodge* (VIII). S, yielding ·37 in.—*Seathwaite Vicarage* (VIII). S, yielding ·40 in.—*Eskdale Vicarage* (X). S, yielding ·35 in.—*Dowlais, Gwernllwyn* (XI). S five inches deep.—*Llandefaelog-fach* (XI). Two inches of S at night.—*Abergwesyn Vicarage* (XI). S and sleet.—*Maxwelton House* (XII). S.—*Colmonell, Clachanton* (XIV). S about an inch deep.—*Inverary, Newtown* (XV). S.—*Stronvar* (XVI). About seven inches of S in the evening.—*Invershin* (XIX). S.

11th and 12th.—*Kensworth* (III). S.—*Henley-on-Thames, Northfield House* (III). S.—*Oxford, Magdalen College* (III). S, yielding ·28 in.—

Steeple Aston, The Grange (III). S.—*Pitsford, Sedgebrook* (III). S.—*Cheltenham, Southam Villa* (VI). Very dry S three inches deep on the ground.—*Ross, The Graig* (VI). S; three inches deep on 12th.

11th—13th.—*Newbury, Welford Park* (II). S.—*Culham Vicarage* (III). S daily.—*Swerford* (III). S; four inches deep on 12th.—*Salisbury, Alderbury* (V). Ground covered with S.—*Wolverhampton, Tettenhall* (VI). S.—*Hoar Cross* (VI). S.—*Salt Vicarage* (VI). S.—*Coventry, Priory Row* (VI). S; five inches deep on 13th.

12th.—*Farnham, Seale* (II). S, yielding ·16 in.—*Bishop's Cannings* (V). Four inches of S on ground.—*Findern* (VII). Three inches of S.—*Aigburth, Holmfield* (VIII). Four inches of S.—*Baldersby* (IX). S four inches deep.—*Solva* (XI). H.—*New Galloway, Glenlee* (XII). S six inches deep.—*Linlithgow, Nether Parkley* (XIII). Five inches of S.—*Craigend Castle* (XV). S six inches deep.—*Gargunnock* (XV). Six inches of S.—*Dunfermline, Keavil* (XVI). S.

12th and 13th.—*Oxford, St. Giles* (III). S, measuring one inch on 12th and increased to two-and-a-half inches on 13th.—*Lechlade* (VI). S.—*Coventry, Kingswood* (VI). S.—*Llanfrechfa Grange* (XI). About four-and-a-half inches of S.

12th—14th.—*Dunkeld, Inverbraan* (XVI). S.

13th.—*Ashburton, Druid* (V). S.—*Llanfrechfa Grange* (XI). S.—*Dowlais, Gwernllwyn* (XI). S two inches deep.—*Cork, Wellesley Terrace* (XX). The first S of the season.—*Galway, Queen's College* (XXII). S.

14th.—*Llanfrechfa Grange* (XI). The shade temp. fell to 15° and the exposed ther. to 8°; the lowest remembered.—*Mullingar, Belvedere* (XXI). S.

14th and 15th.—*Cheltenham* (VI). Skating.

15th.—*Oxford, Magdalen College* (III). Very thick fog.—*Llysdinam* (XI). Min. temp. —4°·0 during the night.—*Ballachulish, Ardsheal* (XV). S. to W. gale.—*Coupar Angus* (XVI). Min. in shade 3°, the lowest in December since 1882.

16th.—*Hodsock Priory* (VII). Min. temp. on grass 0°·1.—*Douglas, Woodville* (XI). S.E. gale.

19th.—*Shrewsbury* (VI). Four inches of S.

20th.—*New Galloway, Glenlee* (XII). S.

21st.—*Coventry, Kingswood* (VI). S.—*Llanvihangel Court* (XI). S.—*Llandefaelog-fach* (XI). Fog; S at night, yielding ·14 in.

21st and 22nd.—*Cheadle, The Heath House* (VI). S.—*Dunkeld, Inverbraan* (XVI). S.

21st—23rd.—*Lilliesleaf, Riddell* (XII). S.

22nd.—*Banbury, Bloxham Grove* (III). S.—*Hoar Cross* (VI). S.—*Hemingby* (VII). S.—*Chelford, Astle Hall* (VIII). S all day.—*Goldsborough Hall* (IX). S.—*Baldersby* (IX). S.—*Abergwesyn Vicarage* (XI). S and sleet.—*New Galloway, Glenlee* (XII). S.

23rd.—*Coventry, Priory Row* (VI). Foggy and very dark.—*Stronvar* (XVI). Two inches of S.

23rd—27th.—*Loch Ness, Drumnadrochit* (XVIII). S daily.

24th.—*Abergwesyn Vicarage* (XI). H and S.—*Stronvar* (XVI). Two inches of S.—*Moynalty, Westland* (XXI). S.—*Markree Observatory* (XXII). H and sleet.

24th and 25th.—*Buchlyvie, The Manse* (XV). S.—*Inverary, Newtown* (XV). S.

24th–28th.—*Nairn, Achareidh* (XVII). S daily.

25th.—*Ashburton, Druid* (V). H.—*Cheadle, The Heath House* (VI). H, R and S.—*Southport, Hesketh Park* (VIII). H.—*Seathwaite Vicarage* (VIII). S.—*Buttermere, Hassness* (X). S.—*Lilliesleaf, Riddell* (XII). S.—*Colmonell, Clachanton* (XIV). About an inch of S.—*Stronvar* (XVI). Three inches of S.—*Watten, H.R.S.* (XIX). S two to three inches deep.—*Markree Observatory* (XXII). H and sleet.

25th—28th.—*Forres, H.R.S.* (XVII). Much S.

26th.—*Solva* (XI). H.—*Linlithgow, Nether Parkley* (XIII). Three inches of S.—*Dunfermline, Keavil* (XVI). S.

26th–28th.—*Logie Coldstone Manse* (XVII). S.

27th.—*Wester Elchies School* (XVII). S storm and T.—*Forres, H.R.S.* (XVII). T and L.—*Forres, Grange Hall* (XVII). Violent storm of T and vivid L.—*Dunmanway, Coolkelure* (XX). Heavy S, followed by R between 2 a.m. and 9 a.m. on 28th; R 1·76 in.—*Galway, Queen's College* (XXII). Heavy S.—*Seaforde* (XXIII). S.

27th and 28th.—*Southport, Hesketh Park* (VIII). Silver thaw.—*Marchmont House* (XIII). S.—*Moynalty, Westland* (XXI). S.

27th—29th.—*Miltown Malbay* (XX). S.

28th.—*Lewes, Saxonbury* (II). S. gale.—*Emsworth, Redlands* (II). Gale, S.E. to S.W.—*Wisbech, Elm* (III). Very heavy wind, veering from S.E. by S., round to W., accompanied by an extraordinary fall in the bar.—*Ashburton, Druid* (V). Heavy R all day; T and H at night.—*Tavistock, Whitchurch* (V). S.E. gale and L.—*Exeter, Heavitree* (V). T, L, H and heavy R; 1·61 in.—*Tiverton, St. Peter Street* (V). TS with vivid L at night.—*Romansleigh Rectory* (V). R 1·56 in.; the largest fall for some years.—*Wellington, The Avenue* (V). Heavy gale and 1·84 in. of R.—*Ross, The Graig* (VI). One inch

of S on ground.—*Llanvihangel Court* (XI). S.W. to N.W. gale and heavy R.—*Douglas, Woodville* (XI). E.N.E. gale, S and heavy R.—*New Galloway, Glenlee* (XII). S and sleet.—*Lilliesleaf, Riddell* (XII). S.—*Buchlyvie, The Manse* (XV). S.—*Forres, Grange Hall* (XVII). S ten inches deep. —*Killarney, Woodlawn* (XX). A blizzard; the S melting fast.—*Clonmel, Bruce Villa* (XX). R 2·55 in.; the largest fall since December 23rd, 1895.—*Mullingar, Belvedere* (XXI). S.—*Woodlawn* (XXII). S.—*Enniscoe* (XXII). S.—*Markree Observatory* (XXII). S and H.

28th and 29th.—*Coupar Angus* (XVI). S.

28th—30th.—*Clifton, Pembroke Road* (VI). S.E. to S.W. gale.

29th.—*Birchington, Thor* (II). Heavy S.W. gale.—*Lewes, Saxonbury* (II). S.W. gale.—*West Dean* (II). Heavy S.W. gale.—*Tavistock, Whitchurch* (V). Heavy S. gale, H and L.—*Cirencester, Further Barton* (VI). Severe W. gale at night, with L.—*Dowlais, Gwernllwyn* (XI). T, L, R and H.—*Dunkeld, Inverbraan* (XVI). S.

29th and 30th.—*Wallington* (II). L.—*Emsworth, Redlands* (II). S.W. gales and L.

30th.—*Lynton, Rock House* (V). T, L and H.—*Abergwesyn Vicarage* (XI). S and H.—*Callander, The Gart* (XVI). S.—*Mullingar, Belvedere* (XXI). S.—*Galway, Queen's College* (XXII). About two inches of S. —*Woodlawn* (XXII). S.—*Enniscoe* (XXII). Sleet and H.

30th and 31st.—*Miltown Malbay* (XX). H, S and sleet.

31st.—*Emsworth, Redlands* (II). L.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.*

I. *Kensington, Edith Road.* Very warm; mean temp. 5°·6 above the average.—*Finchley, Etchingham Park.* R ·59 in., or 31 per cent., above the average of 13 years. Most of the R fell in the fortnight 10th to 23rd, 12 days being wet.

II. *Haslemere, Hazelhurst.* Gales from W. and S.W., with a good deal of R, from 10th to 22nd, 3·77 in. falling on 12 consecutive days. Frost in screen on 12 nights, on grass on 16.—*Cranleigh Common, Homefield Cottage.* Very mild; only a few slight frosts. The beginning variable, the middle wet, and the end mostly fine. Temp. much above average, the max. being over 50° on 11 days.—*Wallington.* Wet and warm, sunny and stormy. The sunniest January in 14 years. Gales on 19th, 21st and 22nd did much damage, but nothing of great consequence. R ·89 in. above, and rainy days exactly, the average. Mean temp. 42°·5, or 6°·0 above the average. Duration of sunshine 70 hours, or 24 hours more than the average.—*Leysdown.* The first ten days were very mild and fine generally, followed by S. and S.W. gales for a fortnight. The month terminated with easterly winds, bright weather and slight frosts.—*Crossness.* Very high winds, few frosts and little S.—*Lewes, Saxonbury.* Very mild till the 24th, then frost and bright sunny days.—*Bournemouth, Kempsey.* Very mild till 23rd. Temp. over 50° on 17 days, and there was no frost in screen till 24th. Frequent gales, and R almost daily, till 24th.—*Christchurch, Winkton Lodge.* Generally mild and wet, and the middle of the month very stormy. Remarkably high bar. and fine cloudless days at the close.—*Emsworth, Redlands.* A month of gales and high temp.

III. *St. Albans, The Grange.* Exceedingly mild and wet. Mean temp. more than 5° above the average, and R an inch above, falling on every day but six.—*Slough, Upton.* Duration of sunshine 70 hours 51 minutes; two days, 26th and 27th, had 7 hours duration, but 9

* Floods in January—see *Met. Mag.*, February, 1899, p. 5.

days were sunless and 3 others had less than 10 minutes sunshine.—*Culham.* Wet and mild till the last week, which was cold and dry.—*Pyrton Manor.* R ·91 in., and rainy days 7, above the average of 13 years.—*Oxford, St. Giles'.* Incessant gales till 22nd, when there was quite a heavy flood.—*Pitsford, Sedgebrook.* Cold, wet and rough. R 1·33 in. above the average. Mean temp. 38°·7.

IV. *Colchester, Lexden.* Mild and stormy till 23rd, then moderate frosts.—*Ipswich, Bishops Hill.* The first three weeks were very unsettled with R and high wind, but mild. Some very bright days occurred in the last week. R ·21 in. less than the average.

V. *Bishops Cannings.* R 2·28 in., and rainy days 5, above the average.—*Tavistock, Whitchurch.* Warm, very wet and stormy. Measurable R fell every day till 23rd, but the remainder was dry. The temp. rose to, or above, 50° on 8 days. Gales on 11 days. H on 6 days.—*Okehampton, Oaklands.* The first three weeks were wet and mild, the remainder fine, with slight frosts.—*Romansleigh Rectory.* Wet and drizzling till the 24th, then fine and frosty to the end.—*Barnstaple, Athenæum.* R 3·41 in. above the average of 30 years. Mean temp. 43°·4, or 2°·6 above the average of 20 years.—*Wellington, The Avenue.* One of the wettest, stormiest and mildest Januaries on record. Frequent gales and R till 23rd, then a change to bright frosty weather. R about 3·25 in. above, or more than double, the average; mean temp. 41°·8.—*Long Ashton Estate Office.* R 5·10 in., being the heaviest fall in January for 20 years, and more than twice the average.

VI. *Clifton, Pembroke Road.* Almost constant R and gales till 23rd, followed by easterly winds and colder weather with slight frosts till the end. R two inches above the average. The wettest January since 1886, when the same amount of R fell.—*Cirencester, Further Barton.* Wet and windy till 22nd, then some fine frosty days. Temp. generally high.—*Ross, The Graig.* Very warm till the 22nd, the temp. on 12 days rising above 50°. In the 28 days ending 22nd 5·15 in. of R fell, and this, combined with heavy W. and S.W. gales, produced the largest flood on the Wye since 1852, but in that year the water rose some 30 inches higher. The six months ending January 31st were warmer than any corresponding period for 40 years.—*Ludlow, Ashford.* A wet month; R 4·69 in. on 20 days.

VII. *Hemingby.* Mean temp. 39°·8, or 4°·5 above the average for 21 years.—*Worksop, Hodsock Priory.* Mild with normal R and very little wintry weather.

VIII. *Chelford, Astle Hall.* A wet month, R falling on 21 days. Frost on 9 days, nearly all at the end; otherwise mild. Plants flowering very early.—*Southport, Hesketh Park.* Unusually mild and wet, and frequently stormy up to the 23rd, but dry, calm and much colder after. Mean temp. 2°·4 above average. Frost in screen on 6 days, and on grass on 18. R 1·02 in. above average. Large range of pressure; sunshine normal. Gales on 8 days, hoar frost on 11. Ice on lake on 29th, 2·3 inches thick.—*Chatburn, Middlewood.* R 4·35 in. above the average, being the heaviest fall in January (and with two exceptions in any month) in 10 years.—*Duddon Valley, Seathwaite Vicarage.* Rainy and very mild, except from 23rd to the end, when severe frost prevailed.

IX. *Hebden Bridge, Falling Royd.* Very wet till 21st, the 4 weeks ending on that date being the wettest 4 weeks in 12 years.—*Harrogate, The Stray.* Very mild with frequent heavy R from 1st to 22nd, then frost to the end.—*East Layton.* Rather changeable but nothing remarkable. Some big floods about the middle, the Tees not having been so high for many years.

XI. *Llanfrechfa Grange.* Very mild until the last week, when there were sharp frosts at night and cold winds.—*Llanvihangel Court.* Temp. very high till 23rd with S. to W. winds and frequent gales.—*Dowlais, Gwernllwyn.* Very stormy throughout; R 9·81 in.; 5·33 in. above, or more than twice, the average for 13 years. Mean temp. 35°·8. Frost on 20 days.—*Llandovery.* The wettest January remembered; R 7·95 in.—*Brecknock, The Barracks.* Very rainy, but mild. Brecon and the surrounding country in the valley were twice flooded by the river overflowing. Houses in Llanfaes had water all through the ground floors. T on one or two occasions and tremendous gales.—*Talarvor.* The first three weeks were very wet and stormy, followed by dry frost with beautiful weather to the end.—*Douglas, Woodville.* Mild with daily R and stormy weather to the 22nd, followed by dry, colder, bright weather to the end. R 6·60 in., only twice exceeded in January in 25 years. Gales occurred on seven days, those of 2nd and 12th being exceptionally severe.

XII. *Lilliesleaf, Riddell.* The first three weeks were very rainy and very windy; the last week was fine, frosty and still, but not severe. R just double the average of 37 years, but exceeded in 1884 and 1877.

XV. *Craigend Castle.* On the whole very wet with frosty nights, but the last week fine and frosty.—*Ballachulish, Ardsheal.* Much R till 22nd, but none after. Strong winds during the first half, but the force never excessive.

XVI. *Dollar.* Cold and wet during the first three weeks; frost and fog in the last week.

XVIII. *Loch Shiel, Glenaladale.* A seasonable winter month. Mean temp. 37°·8.

XIX. *Bettyhill.* Weather very variable and of all kinds, the changes sometimes very sudden.—*Watten, H.R.S.* The first three weeks were a succession of gales and rain storms, varied by S storms from 15th to 17th. The last week was calm and frosty.

XX. *Coolkelure.* For the first 22 days there was R more or less every day, accompanied by violent S.W. gales. From the 23rd to the end was dry and cold, with E. wind and frosts at night.—*Cork, Wellesley Terrace.* R fell on 33 successive days ending on 22nd, a period only once reached in the preceding 16 years. Total R ·92 in. above, mean temp. (40°) 1° below, the average.—*Waterville.* Marked by a succession of extremely heavy gales.—*Derry Castle.* The wettest January in the current decade except 1890, when 7·34 in. of R fell. Generally stormy till the 23rd; the closing week frosty with dense fogs.—*Broadford, Hurdlestown.* A severe month. Very wet till 24th, followed by frost for a few nights. R 1·09 in., and rainy days 2, above the average of 14 years.

XXI. *Ballindoney.* A very mild month with R on the first 22 days. —*Rathmines, Leinster Road.* Extremely mild till 22nd, with R every day. Frost from 23rd to 29th, and the month closed cold, gloomy and damp. S on 2nd and 11th.

XXII. *Markree Observatory.* R ·28 in. above the average of 25 years. —*Ballinamore, Lawderdale.* The first three weeks were wet and stormy; the last week was dry, cold and frosty.

XXIII. *Belfast, Springfield.* R, sleet and storms from 1st to 22nd, followed by frost to the end. Land very wet and not much work could be done on it.—*Lough Swilly, Carrablagh.* The wet period, continuous from December 23rd, 1898, ended on January 23rd, and from November 19th, 1898, to January 23rd, 1899, there were only four rainless days.

FEBRUARY.

I. *Muswell Hill.* The first 3 days were dry, followed by 2·18 in. of R in 11 out of the next 12 days, while the remaining 13 days were dry. R 21 per cent. above the average.—*Finchley, Etchingham Park.* All the R fell on 11 days between the 4th and 15th, the total being

nearly 63 per cent. above the average of 13 years. There were therefore 13 consecutive dry days ending 28th.

II. *Haslemere, Hazelhurst.* R 3·66 in. from 4th to 15th, and only ·06 in. during the remainder. S.W. gale on 20th and 21st. 11 frosts in screen, and 14 on grass.—*Cranleigh Common, Homefield Cottage.* Much R from 1st to 15th; then remarkably fine and dry with frosty nights towards the end.—*Abinger Hall.* The first half was wet and stormy but mild; settled weather set in on the 15th and continued to nearly the end, when it became colder with some frost.—*Birchington, Thor.* The first half was wet and very mild, but from 15th to the end it was dry with E. wind and frost at night. Duration of sunshine 130 hours. —*Crossness.* High winds. Little or no fog or frost.—*Lewes, Saxonbury.* Wet and mild till the 16th, then dry with white frosts and sunny days.—*Christchurch, Winkton Lodge.* Stormy but bright. A gale from S.W. on 12th and 13th coincided with high tide, and the streets in Christchurch were flooded. The valley of the Avon opposite to Winkton Lodge was full of water till the end of the month. Although wet, the amount of sunshine was remarkable, there being 9 cloudless days; the R frequently fell at night.—*Southampton, Red Lodge.* On the whole a beautiful month; mild and genial.—*West Dean* [*Salisbury*]. Very mild and spring-like with very high temp. from 9th to 13th. Severe S.S.E. to S.W. gales on 7th, 8th, 12th and 13th. Very fine and clear with warm sun and sharp white frost from 20th to 28th. Entire absence of cold winds.

III. *St. Albans, The Grange.* Very mild and wet; mean temp. more than 4°, and R more than an inch, above the average.—*Slough, Upton.* Total duration of sunshine 72 hours; max. duration 7 hours 6 minutes on 23rd. Seven sunless days.—*Culham Vicarage.* The first half was wet and very mild; the last ten days were cold with sharp frosts.—*Oxford, St. Giles'.* The first half was stormy and warm; the second half fine, and first warm, then cold.—*Pitsford, Sedgebrook.* R ·28 in. above the average. Mean temp. 39°·6.

IV. *Colchester, Lexden.* Mild and changeable till about the 20th, then dry with bright days and frosty nights.—*Sudbury, Friars Street.* Colder than January; sharp frosts at times.

V. *Bishops Cannings.* R 1·01 in. above, and rainy days 3 below, the average. Frosts with E. wind and clear sky from the 22nd to the end.—*Lyme Regis.* Very rainy for the first two or three weeks, then very dry and fine.—*Romansleigh Rectory.* Frosty till the 4th, then wet till the 21st; fine for the rest of the month.—*Wellington,*

The Avenue. The beginning and end of the month were very fine with hard frosts; the remainder was very wet and stormy with some violent gales. R about 1·25 in. above average.—*North Cadbury Rectory.* The first three, and last thirteen days were extremely dry and in entire contrast to the wet spell from 4th to 15th. The cold spell at the end was most seasonable for checking early vegetation.

VI. *Clifton, Pembroke Road.* After a very wet and stormy fortnight a marked improvement took place on 16th, E. winds prevailing with sharp night frosts and many cloudless days.—*Cirencester, Further Barton.* Until 15th there was a rapid succession of S.W. gales accompanied by heavy R, an unusual amount of electrical disturbance, and high temp. The latter part was exactly the converse, dry east winds and very fine, with sharp night frosts and a large amount of sunshine in the last week.—*Ross, The Graig.* Very wet to the 15th; more electric disturbance than usual and violent gales. From 22nd to the end very sharp frosts every night with anticyclonic weather.—*Ludlow, Ashford.* Sharp frosts at the beginning and towards the end of the month, otherwise mild.—*Coventry, Priory Row.* The first four days were frosty, followed by very wet and stormy weather with unusual warmth to the 16th, then fine and clear to the end with frosty nights in the last week.

VII. *Worksop, Hodsock.* Stormy and showery from the 6th to the 15th, the rest of the month fine. A good many white frosts, but temp. on the whole above the average.

VIII. *Chelford, Astle Hall.* The beginning of the month was wet, but fine weather prevailed from the 14th. Frost on 5 nights.—*Bolton, The Park.* The first half was unsettled with R or S on 12 days, but from the 14th to the end the opposite conditions prevailed—calm, fine weather. Two peculiar features were the almost entire absence of ozone and the many calm days. Mean temp. 40°·1, or 2°·2 above the average of 13 years, and only equalled in 1891 and 1897. R ·80 in. below the average. Duration of sunshine 42 hours on 18 days —*Southport, Hesketh Park.* Unusually sunny but very trying, the mean daily range of temp. being exceptionally large and the amount of ozone smaller than in any other February since observations began in 1871. S.E. winds greatly predominating. Mean temp. 1°·4 above average. Frost in screen on 11 days. Severe weather was confined to the first and last weeks. Total sunshine 50 hours above average, exceeding all previous February records. R ·43 in. below average. S on 1st, 4th and 6th, the total depth unmelted being 1·4 inches.

Much haze and little clear air.—*Chatburn, Middlewood.* R 1·31 in. less than the average of 10 years.—*Broughton-in-Furness.* The first three days were frosty, and a little S fell on 4th and 5th, followed by a dull, drizzly and rainy fortnight with high temp. The last 8 days were fine and frosty with bright sunshine.

IX. *Goldsborough Hall.* Dry, no R falling from 13th to 28th. Shade temp. above 50° on 3 days.

XI. *Llanfrechfa Grange.* Mild generally, but sharp frost in the last week. The weather improved after the 13th.—*Dowlais, Gwernllwyn.* The first half was very stormy and wet, improving later. R 4·03 in. above, or more than twice, the average for 13 years. Mean temp. 38°·2. Frost on 17 days.—*Llandefaelog-fach.* The first and last weeks were very cold, the second and third weeks very wet and warm.—*Talarvor.* Dry weather with little frost.

XII. *Maxwelton House.* Very wet from the 8th to the 18th; very fine and bright with hard frost at night from 20th to 27th. Very little wind.

XV. *Craigend Castle.* The first and last weeks were fine and frosty; the remainder was dull and wet.—*Ballachulish, Ardsheal.* Hard frost during the first five days. Strong winds from S. and S.W. between the 9th and 17th. Calms and light easterly airs from 20th to 26th with much sunshine.

XVI. *Coupar Angus.* February opened dry and cold, the middle was marked by continuous R, and the end was again dry and cold. R above the average; mean temp. 36°·2.

XVIII. *Glenaladale.* A fine winter month; mean temp. 39°·5.

XIX. *Melness, Talmine.* The driest and warmest February remembered, with summer-like weather for the last ten days.—*Watten, H.R.S.* A good month; the first half cloudy and changeable, the last half clear, dry and fine.

XX. *Coolkelure.* Very rough with high W. and S.W. gales in the first half. These gales were remarkable for the rapidity with which they sprang up and the suddenness with which they disappeared.—*Cork, Wellesley Terrace.* Owing to the excess of R, strong wind from S. and diminished atmospheric pressure on the surrounding ocean, coinciding with spring tides, there were remarkable floods from 8th to 12th. R ·88 in. above the average.—*Killarney.* Floods from 7th to 13th, 4·91 in. of R falling in the 7 days.—*Derry Castle* [*Killaloe*]. R nearly normal, being only 3 per cent. above, while the rainy days were 16 per cent. less than, the average. The first half was stormy and tem-

pestuous, but from the 21st to the end was dry, with bright and fine days but frosty nights.—*Nenagh, Castle Lough.* The first three weeks were very wild and wet, but the last 8 days were rainless.—*Miltown Malbay.* Stormy, cold and wet to the 15th; afterwards dry and mild.

XXI. *Ballindoney.* A mild month. Great floods occurred on the Barrow after heavy rains on the 9th.—*Rathmines, Leinster Road.* Cold weather continued till the 5th, the day temp. being lower than at any previous time in the winter. It was then mild, wet, stormy and unsettled to the 20th; the remainder was fine, dry and hazy with sharp frosts.

XXII. *Galway, Queen's College.* Weather very severe till the 15th, but dry after the 17th.—*Markree Observatory.* Most of the R fell during the fortnight ending on 17th, the rest of the month being very dry with a good deal of bright sunshine.—*Lawderdale.* The first half was wet, the latter half dry.

XXIII. *Belfast, Springfield.* A fine open month. Hoar frost on several mornings at the beginning and end. Land drying up well during the last 8 days.

MARCH.

I. *Kensington, Edith Road.* R less than one-third of the average.—*Finchley, Etchingham Park.* R 1·51 in., or nearly 73 per cent., less than the average of 13 years. There was absolute drought for 20 days from February 16th to March 7th, and partial drought for 42 days, with ·41 in. of R, ending March 29th. S fell on 20th, 21st and 23rd.

II. *Haslemere, Hazelhurst.* S on three days. Mean temp. 40°. 16 frosts in screen and 22 on grass.—*Cranleigh Common, Homefield Cottage.* A dry month. Fine and frosty nights from 1st to 8th and from 19th to 25th; min. temp. on 25th 17°, the lowest since February, 1895.—*Abinger Hall.* Fine and dry. Frosts nearly every night throughout, and towards the end very severe.—*Wallington.* Exceedingly dry, being the driest March with the exception of 1893 since 1880, the sunniest since 1885 except 1893 and 1894, and the calmest, with the least number of rainy days, on record. R 1·25 in., rainy days 8, and mean temp. 0°·9, below the average. Duration of sunshine 141 hours, or 17 hours above average.—*Birchington, Thor.* The most winterly month of the winter, with sharp frost on 19 nights and heavy falls of S on 21st, 22nd, 23rd and 25th. Duration of sunshine 209 hours.—*Sheppey, Leysdown.* Remarkably fine and dry.

The first half was fine with many full days sunshine. Very sharp night frosts from 19th to 24th. The last week much warmer.—*Lewes, Saxonbury.* Dry and bright. Total drought for 20 days ending on 7th, and partial drought for 37 days ending on 24th.—*Bournemouth, Kempsey.* Very dry and sunny. A sharp touch of wintry weather from 19th to 25th. Frost in screen on 11 nights, on grass on 21 nights. Slight S on 21st and 22nd.—*West Dean* [*Salisbury*]. A dry month, remarkable for sunshine, with intense cold at night. From 18th to 26th the days were very cold, with almost continuous frost and constant dry S. Very mild from 26th to the end. Frost on 24 nights.

III. *Slough, Upton.* Shortage of R; full quantity of sunshine; an excess of wind despite a foggy interval in the middle, but equinoctial gales slight. The month began and also nearly ended with severe frosts, the winter this season being almost entirely comprised in March. Duration of sunshine 139 hours; one sunless day.—*Culham Vicarage.* Cold and dry. Very sharp with S at times from 18th to 25th.—*Pyrton Manor.* R 1·49 in., and rainy days 5, below the average of 13 years. Absolute drought for 16 days ending on 3rd, and partial drought for 33 days with ·29 in. of R ending on 20th.—*Swerford.* S fell in small quantities on seven days; fog or mist occurred on nine mornings, but there was no sunless day.—*Pitsford, Sedgebrook.* R ·44 in. below the average of 10 years. Mean temp. 39°·6.

IV. *Colchester, Lexden.* Dry on the whole; very cold from 18th to 25th, with biting N.E. winds and occasional S, but with the exception of that week the weather was delightfully fine and bright, and some days quite warm. Frost on grass on 23 nights.—*Ipswich, Bishops Hill.* R just over two-thirds of the average. Two-and-a-half inches of S fell during the month. Great variations of temp., ranging from 61° on 11th to 21° on 20th.—*Rendlesham Hall.* Strong winds, S storms and severe frosts.

V. *Bishops Cannings.* R 1·54 in., and rainy days 5, below the average. S from 20th to 23rd.—*Tavistock, Whitchurch.* Fine and dry. Average temp. but with large variations, the max. rising above 60° on two days. Fog on eight days. Solar halos on five days.—*Okehampton, Oaklands.* Dry and cold generally, but the last few days mild.—*Romansleigh Rectory.* Many very fine and bright days, and less than an inch of R during the whole month.—*Wellington, The Avenue.* Generally very dry with frequent cold winds, but much sunshine. Very hard frosts from 18th to 24th, but the last week very mild. Mean temp. 43°·0. R only about half the normal.—*North Cadbury.*

Very dry and extremely calm. Sunshine much in excess, but mean min. temp. both in shade and on grass remarkably low. Extreme cold from 20th to 24th, with N.W. wind, bright sun and a thin film of S.

VI. *Clifton, Pembroke Road.* Fine and dry. A cold period from 1st to 6th, and a much colder one from 18th to 24th with northerly winds.—*Chipping Campden, Hidcote.* Cold at first and warm in the middle and at the end, with very little R.—*Ross, The Graig.* Very fine, with great range of temp. Five days with max. above 60° and nine others above 55°. Severe frosts every night of the first ten, and still more severe during the week ending 25th, the grass min. being below 20° on five consecutive nights. R very deficient, being the least in March for 40 years excepting 1893 and 1898. No gales and very little S.—*Coventry, Priory Row.* For the most part fine and mild, but very rough, cold and stormy, with sharp frosts from 19th to 25th.

VII. *Horncastle, Bucknall.* Very severe weather with S from 19th to 24th.—*Worksop, Hodsock Priory.* Dry and fairly bright, with a sharp spell of cold in the third week; the temp. on 22nd fell to 16°·7 in the screen and to 1°·1 on the grass. Vegetation rather backward and spring sowing hindered by frost.

VIII. *Bolton, The Park.* Wide range of temp. and two cold periods, from 4th to 8th and 18th to 25th, the min. temp. on 21st being 2° lower than in any previous March. Mean temp. 40°·3, or 0°·8 above, and R ·19 in. below, the average. Duration of sunshine 102 hours, on 21 days, or 21 hours more than the average. S on five days.—*Southport, Hesketh Park.* On the whole dry, fine and quiet, the feature being a spell of keen, cloudless, northerly weather from 19th to 24th inclusive. Mean temp. 0°·5 above the average. Frost in screen on 13 days. Sunshine 21 hours above, and R ·91 in. below, the average. Solar halos on five days, lunar halos on two.—*Chatburn, Middlewood.* R ·71 in. less than the average of 10 years.—*Seathwaite Vicarage.* Generally cold and rather rainy, with a fortnight of severe winter weather in the central portion.

IX. *Hebden Bridge, Falling Royd:* Dry and mild, with very little E. wind.—*Baldersby.* During the first fortnight the wind was W. or S.W., and in the second week the temp. was summer-like. During the last fortnight the winds were E. and N.E., and in the third week a snowstorm occurred.—*East Layton.* Unusually fine, very dry and exceptionally hot up to the 18th, the temp. reaching 76°. A change then set in, and more than a week of bitter blast from the N.

followed, with hard frosts at night.—*Middlesborough, Ormesby.* Cold and dry, but there was a blizzard from the 18th to 25th, when ·95 in. of S fell.

XI. *Llanfrechfa Grange.* Very mild, especially from 10th to 18th, then sharp frosts at night till 25th, and very mild again after the 26th.—*Llandovery.* Very cold with S, and the hardest frost of the winter in the fourth week.—*Llandefaelog-fach.* Very cold and wintry till the last week.—*Douglas, Victoria Road.* Dull and damp to the 12th, followed by five days of fine, warm and spring-like weather, which gave place on 18th to a week of intensely cold N.E. winds with frost and S. S.W. gales on 25th, 27th and 28th. Vegetation backward.

XII. *Lilliesleaf, Riddell.* Unusually cold, with much S and R towards the end.

XV. *Ballachulish, Ardsheal.* R every day till 14th, then clear with easterly breezes and intensely cold till 24th, followed by R every day to the end. R ·33 in. above the average.

XVIII. *Glenladale.* The first half was very fine; the second half wet, stormy and cold. Mean temp. 41°·1.

XIX. *Bettyhill.* Cold and stormy with sudden changes. S storm from 20th to 24th.—*Tongue, Talmine.* In the second half of the month there was a great fall of S, which continued for a whole week with much drifting; the depth was about a foot.

XX. *Cork, Wellesley Terrace.* R only half the average. The range of temp. from 64° on 31st to 22° on 24th, within a week, is remarkable. This min. has only once been reached in 16 years, but the max. is unprecedented.—*Derry Castle.* R 44 per cent. below, and rainy days 12 per cent. in excess of, the average, but there were only two days of heavy R.—*Nenagh, Castle Lough.* Extraordinary variations of temp. in the latter part. On 17th the shade temp. was 58°, with butterflies about, while on 23rd it fell to 20°, the lowest reading during the winter.—*Miltown Malbay.* On the whole good for agricultural purposes. Very hard frost about the 20th.

XXI. *Kilkenny, Sion Villa.* Generally dark and overcast, but some lovely weather in the week ending 21st. S on 21st, 23rd and 24th. Frost in the mornings till 9th, and again from 16th to 24th. Gales on 28th and 29th. Absolute drought from 9th to 23rd inclusive.—*Rathmines, Leinster Road.* The driest March since 1893. Partial drought for 32 days with ·23 in. of R ending on the 24th. There were remarkable variations of temp., the mean of the week ending 24th being 35°·5, and of the following week 51°·2.

XXII. *Markree Observatory.* Dry and fine on the whole. Most of the R fell at the beginning and end. Temp. generally fairly high, but low from 19th to 24th. Much bright sunshine.—*Lawderdale.* Dry but cold and harsh.

XXIII. *Belfast, Springfield.* Very fine till the 6th, the sun shining all day, and March dust abundant. Frost with cold R and sleet followed till 11th, then dry and generally bright with cold wind and keen frost at night to the 24th. Frequent cold showers during the remainder of the month.

APRIL.

I. *Kensington, Edith Road.* A dripping month with uniform temp.; the wettest in 16 years, but R only 2·30 in.—*Muswell Hill.* The wettest April since 1882, the R being 1·40 in., or 82 per cent., above the average of 27 years.—*Finchley, Etchingham Park.* The wettest April in 13 years, the total being exactly double the average. R fell on 22 days, so distributed that there was only one instance of two consecutive rainless days.

II. *Cranleigh Common, Homefield Cottage.* Rainy and variable; mean temp. 47°·8.—*Wallington.* Cool and very wet; the wettest since 1882, the R being ·76 in., and the rainy days 5, above the average. Mean temp. 47°·8, or 0°·7 above the average. Duration of sunshine 137 hours, being 30 hours below the average, and 33 per cent. of the possible amount.—*Crossness.* High winds and frequent sharp R storms. —*Bournemouth, Kempsey.* Rainy and cold, winds off the sea prevailing. Mean max. temp. 53°·7.—*Christchurch, Winkton Lodge.* The wettest April, with the exception of 1897, for eight years. Temp. low and the weather sunless.—*West Dean.* Very cold and inclement, and fruit buds much injured by cold winds and night frosts. The coldest April since 1891. R in excess of the average.

III. *St. Albans, The Grange.* Cloudy and wet. R more than an inch above the average.—*Culham Vicarage.* Cold and showery, but one or two warmer days at the end.—*Watlington, Pyrton Manor.* R 1·14 in., and rainy days 10, above the average of 13 years.—*Oxford, St. Giles'.* An average April but rather wetter, and with more rainy days than the average.—*Banbury, Bloxham Grove.* Cold and ungenial. —*Blisworth, Grafton House.* Very squally with heavy showers on several days.

IV. *Colchester, Lexden.* Changeable but rather cold and dull.— *Sudbury, Friars Street.* Very unsettled; only five days without R.—

Ipswich. Bishops Hill. Dull and cold, with frequent small showers and several frosty nights. R ·62 in. above the average.—*Rendlesham Hall.* Rather more than the average R. Frost on four days.

V. *Bishops Cannings.* R ·95 in., and rainy days 8, above the average.—*Tavistock, Whitchurch.* Rather cold, cloudy, damp and very wet. The max. temp. never exceeded 57°·3, being lower than in February and March. Fog on 10 days.—*Romansleigh Rectory.* Wet on the whole, but with some fine days.—*Wellington, The Avenue.* The month opened very mild, then followed wet, cool and windy weather, but at the close it was milder and finer. R nearly double the normal. Temp. rather low; mean 48°·0.—*North Cadbury Rectory.* Cold, dull, windy and showery. Vegetation very backward, more from lack of day warmth than from severity of night cold.

VI. *Cirencester, Further Barton.* Cold and unsettled, with frequent R, sleet, H, S showers and rough, squally winds. The temp. rose above 60° on only two occasions, and fell to 32° or below, on seven nights. Vegetation very backward.—*Campden, Hidcote.* Very cold at first with H, but warmer towards the end.—*Ross, The Graig.* Constant showery weather with cold winds made the month unpleasant. R only just above the average, but rainy days numerous. Amount of cloud rather more than usual.—*Wolverhampton, Tettenhall.* R 4 per cent. above the average of 26 years.

VIII. *Chelford, Astle Hall.* The first half was wet and the second half very cold.—*Bolton, The Park.* Typical weather. Showery with variable temp. R more than double the average, and the greatest recorded for April. Mean temp. 44°·1, 0°·1 below the average.—*Southport, Hesketh Park.* Dull, wet and rather stormy, pressure being exceptionally low and oscillating extensively. Mean temp. 0°·6 above, and R 1·40 in. above, the average. Frost in screen on one day. Mean daily range unusually small, 4°·0 below average. W. winds generally, the normal E. winds being almost entirely absent. Sunshine 38 hours below average. Solar halos on four days, and a lunar halo on the 20th.—*St. Michael's-on-Wyre.* The wettest April since 1882.—*Chatburn, Middlewood.* R 1·50 in. above the average, and the heaviest fall in April in 10 years.—*Broughton-in-Furness.* Cold, dull and wet, though there were two or three bright sunny days during the third week, and it was milder towards the close. Vegetation very backward.—*Duddon Valley, Seathwaite Vicarage.* Very rainy with persistently low temp. till the closing days.

IX. *Goldsborough Hall.* The first week was mild with very little

sunshine, followed by much colder weather with frosty nights. Much warmer again from 22nd to 29th.—*Middlesborough, Ormesby.* Cold and damp with little R.

X. *Brampton, Denton House.* Wet, cold and sunless. R on 21 days, and nearly an inch more than the average.

XI. *Llanvihangel Court.* Cold, gloomy and sunless.—*Dowlais, Gwernllwyn.* Very stormy and wet, with much fog. R 3·45 in. above, or more than double, the average of 13 years. Mean temp. 42°·6. Frost on 13 days.—*Llandovery.* Very stormy.—*Llandefaelog-fach.* Wet and cold with high winds; altogether ungenial.—*Llanystumdwy, Talarvor.* Very cold and damp.—*Douglas, Woodville.* Most unseasonable; abnormally wet, cold and stormy, with more than twice the average R, the fall having been only once exceeded in 25 years. High winds on 12 days, reaching the force of a gale on nine. Fog or haze on three days. S on one day.

XII. *Maxwelton House.* Very wet and cold, with frost on eight days.

XV. *Craigend Castle.* Stormy and wet throughout, with slight frost at times.—*Ballachulish, Ardsheal.* Cold and wet. R 1·74 in. above the average.

XVI. *Dollar.* Cold and wet throughout.—*Coupar Angus.* Characterised by cold and cloudy days and frequent R, the total fall being 1·13 in. above the average.

XVIII. *Glenaladale.* A wet month. Vegetation backward. Mean temp. 44°·3.—*Drumnadrochit.* Unusually inclement, and vegetation very backward.

XIX. *Bettyhill.* Very cold and changeable throughout.—*Tongue, Talmine.* The first part was cold and wet, retarding spring work. From 21st to the end finer with light winds from N. or N.E. and slight frost at night. S on the mountain tops throughout.

XX. *Cork, Wellesley Terrace.* Low mean temp. and R slightly in excess of the average, but the atmosphere comparatively free from moisture.—*Derry Castle.* The wettest April in the current decade excepting 1897, when slightly more fell. R double the average of 10 years, and rainy days 50 per cent. in excess.—*Miltown Malbay.* Cold, ungenial and generally wet.

XXI. *Ballindoney.* Cold, with a good deal of R.—*Kilkenny, Sion Villa.* Dark and close, except for a few days about the middle, when it was bitterly cold. Gales on 4th, 7th and 8th. H on 8th and 18th. —*Rathmines, Leinster Road.* After a few fine, warm days the weather

became cold, showery and unsettled, and continued so till towards the end, when there were a few warm days. Less E. wind than usual. Gales on 4th, 6th and 7th.

XXII. *Markree Observatory.* Cold on the whole, with R 2·16 in. above, or more than double, the average. Duration of sunshine 113 hours, being 37 hours less than the average. Mean temp. about the average.—*Lawderdale.* Wet and unseasonable, with much strong wind.

XXIII. *Belfast, Springfield.* Nearly all kinds of weather; bright sunshine, dark, miserable and cold weather, H, R and sleet, but not much frost. Though the wettest April on record, there were no heavy rains.

MAY.

I. *Muswell Hill.* R ·46 in., or nearly 24 per cent., less than the average of 27 years. In the 13 days from 12th to 24th nearly 94 per cent. of the total fell. The last week was dry.

II. *Haslemere, Hazelhurst.* Sunshine at the beginning and end of the month, R in the middle. Mean temp. 50°. Two frosts in screen, ten on grass.—*Abinger Hall.* Fairly good, but some very cold weather, with frost which damaged potato tops, towards the end.—*Wallington.* Cold and cloudy, with a rather short R. Cold from 1st to 12th; wet and fairly warm from 13th to 24th; somewhat cold from the 25th to the end. Vegetation a fortnight late. Mean temp. 51°·0, or 2°·8 below, and R ·26 in. below, the average. Duration of sunshine 205 hours, being two hours below the average.—*Sheppey, Leysdown.* On the whole cold and unpleasant, with scanty sunshine, except from 3rd to 7th. Spells of very cold E. wind, from 3rd to 8th and from 25th to the end. —*Lewes, Saxonbury.* On the whole cold and unpleasant; the first and last weeks were cold with slight frosts; bright sunshine during the last few days.—*West Dean.* Very cold and inclement, with much wind, heavy H storms and severe night frosts. The day temp. was exceptionally low, exceeding 60° on only 11 days, and being below 55° on six days. R about half the average. The coldest May for 12 years.

III. *St. Albans, The Grange.* Rather cold and wet, and the air humid.—*Slough, Upton.* Duration of sunshine 211 hours; two sunless days.—*Culham Vicarage.* Cold and windy on the whole, and dry, except in the middle of the month.—*Swerford.* Two sunless days; fog or mist on two days; T on two days, and H on two days. Prevailing winds S.W. and N.E.—*Castle Ashby.* R ·53 in. less than the

average of 10 years.—*Northampton, Sedgebrook.* R ·64 in. less than the average of 10 years. Mean temp. 50°·1.

IV. *Ipswich, Bishop's Hill.* Low temp. generally, and sharp frosts from 3rd to 5th and 25th to 27th. R ·35 in. less than the average.

V. *Broadwindsor.* Very dry with strong E. wind during the first 10 days; then constant misty R with S.W. wind till the 27th, when the wind changed to N.—*Tavistock, Whitchurch.* Rather cold with about average R.—*Lyme Regis.* Cold during the first three weeks, warmer later.—*Okehampton, Oaklands.* The early part was dry and cold, the middle wet and cold, the last day warm. A backward spring. —*Romansleigh Rectory.* Fine at the beginning and the end of the month; wet in the middle.—*North Cadbury Rectory.* From 4th to 8th and 27th to 31st very brilliant and dry, with keen, parching winds and cold nights. The rest of the month cool days and extremely cloudy. Very little R and the air dry. The max. temp. exceeded 70° on four days only.

VI. *Clifton, Pembroke Road.* Fine and dry with easterly winds till 11th; then rainy, unsettled and cold till 25th, and the last few days fine and warm again.—*Fairford, Horcott.* On the whole the coldest May remembered.—*Cirencester, Further Barton.* Rough, cold and unsettled. A cold, strong, dry E. wind prevailed till the 8th. This changed to S.W. gales with much R, which lasted till 23rd. Bitterly cold E. winds then set in, and frosts on 27th and 28th did enormous damage. As this wind died down the last few days were fine and warm.—*Ross, The Graig.* Cool and unsettled till 28th. Vegetation late, having suffered from frost. The number of rainy days large, but an average amount of R.—*Wolverhampton, Tettenhall.* R 88 per cent. of the average of 26 years.—*Coventry, Priory Row.* Mostly dull and cool till near the end; the last week dry, clear and growing warm.

VII. *Worksop, Hodsock Priory.* Showery, with some fine periods and some sharp frosts near the end. Crops on the whole looking well.

VIII. *Chelford, Astle Hall.* Rough and wet on the whole, warm weather setting in about the 28th.—*Bolton, The Park.* The feature of the weather was the persistence of E. winds. As a consequence the temp. was low, reaching 50° on only one day before 18th. Mean temp. 47°·9, or 1°·8 below the average. R ·56 in. above the average. Duration of sunshine 130 hours, or 29 hours below the average. Eight sunless days.—*Southport, Hesketh Park.* Dull but very calm, easterly conditions predominating. Wet and sunless between 10th and 25th. R ·30 in. above, and mean temp. 1°·3 below, the average. Frost in screen

on two nights. Sunshine 49 hours below average. Less ozone than in any other May since the record commenced in 1872.—*Duddon Valley, Seathwaite Vicarage.* Rainy and disappointingly chilly till the last week.

IX. *Hebden Bridge, Falling Royd.* Very cold and unspringlike.—*Middlesborough, Ormesby.* Very cold. On 10th and 11th 2·12 in. of R fell in 48 hours.

XI. *Llanvihangel Court.* Cold till quite the end of the month.—*Dowlais, Gwernllwyn.* R 1·36 in. above the average of 13 years. Mean temp. 50°. Frost on six days.—*Llandefaelog-fach.* Cold and ungenial generally, but the last three days warm and pleasant.—*Douglas, Woodville.* Cold, wet and unspringlike, perhaps worse than April, allowing for the more advanced season. The first 10 days were cold and dry; from 10th to 25th it was extremely wet with no increase of temp. The last six days were fine and bright with E. wind.

XII. *Moniaive, Maxwelton House.* Vegetation was very backward at the beginning, but made rapid progress during the last days. Exceptionally heavy R for the time of year on 18th and 19th (2·24 in.). Rivers in high flood.—*Lilliesleaf, Riddell.* Very cold and vegetation much checked. R 1·13 in. above the average of six years.

XV. *Craigend Castle.* The first part was fine and frosty; the middle wet and dull. Fine from 25th to 31st with cold E. winds.—*Ballachulish, Ardsheal.* Dry till the 8th, then frequent R, H and S till 20th.

XVI. *Coupar Angus.* The barren weather of April continued till May 29th, and it was the coldest May since 1867. Mean temp. 45°·1. Foliation three weeks late.

XVIII. *Drumnadrochit.* May will be remembered for coldness and drought. Vegetation fully a month behind the average.

XIX. *Bettyhill.* Dry and cold with frequent E. and N.E. winds.—*Watten, H.R.S.* Very ungenial throughout; cold and cloudy with northerly winds and frosty nights to the end.

XX. *Dunmanway, Coolkelure.* A very late spring. Frosts during the first and last weeks killed any potatoes above ground. All deciduous trees very late in coming into leaf.—*Cork, Wellesley Terrace.* R nearly double the average. Mean temp. 1°·8 below average.—*Cahir, Duneske.* The weather conditions for agriculture were almost perfect, save for frosts from 5th to 8th.—*Derry Castle.* R 19 per cent. above, but rainy days 6 per cent. below, the average of 10 years.—*Miltown Malbay.* The beginning and end were cold, dry and parching, a few

night frosts at the end doing immense damage. The middle was cold, rainy and blustery, with occasional falls of H, and T on three occasions.

XXI. *Ballindoney.* Cold and inclement from 8th to 25th, with a good deal of R.—*Kilkenny, Sion Villa.* A lovely month, except from 17th to 20th, when it was wet and stormy. Frost on 6th. T on 11th and 14th.—*Rathmines, Leinster Road.* Anticyclonic conditions prevailed till 8th, with clear skies, warm sunshine and cold nights. From 9th to 24th was gloomy and unsettled, with R every day; the last week resembled the first.

XXII. *Markree Observatory.* The first and last weeks were very fine. R slightly above the average. Wind very moderate. Duration of sunshine 214 hours, or 31 hours above the average.—*Lawderdale.* The first and fourth weeks were dry and mild, but the rest of the month was wet and stormy.

XXIII. *Belfast, Springfield.* Cold with frosty nights till 11th, then cold and wet till 24th. The last week, however, made up for the previous cold, and vegetation made rapid progress.

JUNE.

I. *Kensington, Edith Road.* Warm and dry, R falling on only five days, but then in large quantities.—*Muswell Hill.* R ·31 in., or 14 per cent., above the average of 27 years. Absolute drought for 24 days ended on 17th.—*Finchley, Etchingham Park.* Though R fell on only five days, the total is ·41 in., or 23 per cent., above the average of 13 years. The first 17 days were dry, giving absolute drought for 24 days from May 25th. R fell on the 18th, 19th and 22nd, but heavy falls on 28th and 30th produced more than two-thirds of the total.

II. *Haslemere, Hazelhurst.* Warm and sunny. Absolute drought for 24 days ending on 17th, and a short hay crop in consequence. R on six days.—*Cranleigh Common, Homefield Cottage.* Fine, warm and dry. R 1·32 in., of which ·57 in. fell on 19th and the same quantity on 30th.—*Wallington.* Remarkably dry and sunny, and fairly warm. R ·80 in., and rainy days 5, below the average, each being only half the normal and the lowest, with one exception, since the record commenced. Mean temp. 60°·7, being 1°·0 above the average. Duration of sunshine 256 hours, or 48 hours above the average.—*Birchington, Thor.* Very hot and dry to the 18th, thence to the end wet and stormy. Duration of sunshine 278 hours.—*Lewes, Saxonbury.* Very dry, no R falling till the 18th, when total drought for 24 days ended.

Partial drought for 30 days ended on the same date.—*Isfield Place.* Very dry and warm till 17th. Mean temp. 57°·5. TSS on four days. —*Christchurch, Winkton Lodge.* Hot and dry, absolute drought for 24 days ending on 18th. Enjoyable weather throughout; 13 cloudless days and the least R in eight years, excepting 1898.

III. *St. Albans, The Grange.* Warm and the air rather dry; R about the average, but none fell before the 18th.—*Slough, Upton.* Duration of sunshine 253 hours; one sunless day. Temp. above 80° on six days.—*Culham Vicarage.* Dry and warm throughout.—*Oxford, St. Giles'.* Warm, and very dry till the last day. Mean temp. 5°·0 above the average.—*Blisworth, Grafton House.* Very dry; no R till 18th, when ·06 in. fell, being the first R for 24 days. Heavy R on 19th.—*Pitsford, Sedgebrook.* Fine and bright till 17th, an absolute drought of 22 days' duration ending on that date. R ·83 in. below the average. Mean temp. 60°·1.

IV. *Colchester, Lexden.* Cold nights and bright days with E. or N. winds. Warmer and unsettled after the 17th.—*Sudbury, Friars Street.* Very fine at the commencement. No R from May 24th to June 18th. —*Ipswich, Bishops Hill.* Fine and dry with some great variations of temp. No R till the afternoon of the 18th, the total for the month being ·64 in. less than the average.

V. *Bishops Cannings.* R ·77 in., and rainy days 6, less than the average.—*Lyme Regis.* Fine and warm on the whole, with occasional distant T.—*North Cadbury Rectory.* From the 1st to the 17th a spell of fine weather with extraordinarily little wind or cloud. From 17th to 30th a considerable average of both wind and cloud, frequently threatening R that did not come. Cold nights from 9th to 15th.

VI. *Clifton, Pembroke Road.* Fine and warm. But for the TS on 30th with 1·01 in. of R, this would have been the driest June in 41 years. —*Cirencester, Further Barton.* Magnificent hot and sunny weather till 17th. Three TSS in the latter part.—*Coventry, Priory Row.* Remarkably beautiful weather up to the 18th; fine, clear and warm, but without extreme heat. Much wanted R fell on 18th, and the latter part was rainy.

VII. *Worksop, Hodsock Priory.* Fine and warm; bright and dry at first, showery towards the end. This R did much good, as the country was getting very dry and the young root crops were beginning to suffer.

VIII. *Chelford, Astle Hall.* Very hot and dry with some T.— *Bolton, The Park.* Warm and bright, ensuring good crops of hay and

corn. From 1st to 17th there was a phenomenal spell of bright sunshine, no less than 174 hours being recorded, or more than the average for the whole month. Absolute drought for 21 days ended on 17th. Mean temp. 59°·9, or 3°·9 above, and R ·59 in. below, the average, the former being the highest since records began. Duration of sunshine 209 hours, or 46 hours above the average; this has been exceeded, in June only in 1888, when there were 229 hours.—*Southport, Hesketh Park.* Very warm, calm and sunny. R ·72 in. below, mean temp. 2°·5 above, and sunshine 55 hours above, the average; mean humidity 8 below. Absolute drought for 24 days terminated on 17th. Between May 27th and June 17th inclusive 283·5 hours of sunshine were recorded.—*Chatburn, Middlewood.* R 1·35 in. less than the average of 10 years, and the least in June since 1891.—*Broughton-in-Furness.* Very fine, dry and warm to the 17th, followed by slight showers almost daily with a good deal of T. Grass lands were much burnt up before the end of the dry weather, and the R up to 29th did not do much good, falling in such small quantities that the sun and wind rapidly dried it up.—*Seathwaite Vicarage.* Hot and dry till the 18th, when cooler and rainy weather set in and continued till the end.

IX. *Hebden Bridge, Falling Royd.* Warm and dry with a good deal of sunshine, especially in the first half, which was almost cloudless day after day.—*Goldsborough Hall.* Very hot and dry during the greater part. Some high temp. during the first week, notably 84°·0 on 6th. No R fell until 18th, but after that 10 days were rainy.—*Thixendale.* A dry month, with great heat, the max. temp. of the year (86°) occurring on the 5th.—*Middlesborough, Ormesby.* Fine and dry as a whole, but unsettled and warmer towards the end.

X. *Pawston* [*Coldstream*]. In the 23 days ending 17th only ·01 in. of R fell, and this with low temp. on some nights damaged turnips so that part of the crop had to be sown twice, and some even three times. —*Keswick, Shu-le-crow.* The R fell entirely between 18th and 30th, there being absolute drought from May 28th to June 18th.

XI. *Llanfrechfa Grange.* Very hot till the 17th, and the ground very dry; much cooler afterwards, with very acceptable R.—*Dowlais, Gwernllwyn.* Very mild. R ·75 in. below, or little more than half, the average for 13 years. Max. temp. 95° on 6th and 12th. Frost on two days.—*Brecknock, The Barracks.* Very warm and dry at the commencement; showery in the latter half.—*Llandefaelog-fach.* Absolute drought prevailed for the first 17 days, followed by three days of heavy though not continuous R. The remainder was fairly dry and

warm.—*Douglas, Woodville.* The warmest June since 1887. The first 16 days were extremely fine and warm, whilst there was absolute drought from May 24th, which was disastrous for the gardens generally. The latter half was wet and cooler.

XII. *Monaive, Maxwelton House.* Very hot and dry from 1st to 18th, the max. temp. ranging between 74° and 84° from 5th to 17th.—*Lilliesleaf, Riddell.* Very fine; R ·77 in. below the average.

XV. *Craigend Castle.* Fine and warm on the whole, with no R in the first 16 days, but the last week wet.

XVI. *Coupar Angus.* Bright generally, and before the 27th dry. The R which came at the end was slightly short of the average. No TSS and no frost.

XVIII. *Glenaladale.* Very fine and warm, and vegetation luxuriant. Mean temp. 60°·1.—*Drumnadrochit.* Great scarcity of moisture, and the R of the 18th and later days just saved the crops. In 27 years no such re-sowing of turnips is remembered.

XIX. *Bettyhill.* Uniformly fine throughout.—*Watten, H.R.S.* Mild, fine and favourable throughout, though rather dry.

XX. *Coolkelure.* Remarkably dry and hot; 22 rainless days ending on 16th.—*Cork, Wellesley Terrace.* Unusually warm from 6th to 13th. R less than half the average.—*Derry Castle.* A splendid summer month, the bright and warm sunshine being tempered by pleasant breezes, and as there were frequent falls of R from the 17th to the close, vegetation progressed favourably. R 33 per cent. below, and rainy days 27 per cent. below, the average of 10 years.—*Miltown Malbay.* Remarkable for a burst of heat up to the 16th, which was excessive for so early in the season. From the 17th to the end rainy and cool.

XXI. *Ballindoney.* A very fine, warm month, with absolute drought for 17 days ending on 11th. Heavy R between 19th and 22nd.—*Kilkenny, Sion Villa.* A perfect month throughout. Absolute drought from May 25th to June 16th.—*Rathmines, Leinster Road.* Very fine and summerlike, absolute drought prevailing from May 25th to June 16th, a period only once exceeded here. Although the total R slightly exceeded the average, the greater part fell on 20th.

XXII. *Lawderdale.* Fine, dry and warm, excepting the last four days, which were rainy.

JULY.

I. *Kensington, Edith Road.* Very hot and dry, the warmest July in 16 years; temp. 5°·1 above, and R 1·48 in. below, the average.—*Muswell Hill.* R ·27 in., or 10 per cent., less than the average of 27 years.—*Finchley, Etchingham Park.* R ·82 in., or nearly 31 per cent., less than the average of 13 years. The first three days had R, followed by 17 with only one rainy day, and the rest of the R fell on four days in the fourth week, 1·07 in., or 58 per cent., of the total, falling in a TS on 22nd.

II. *Haslemere, Hazelhurst.* Dry with much sunshine. Mean temp. 64°. TSS on 20th, 22nd and 23rd.—*Abinger Hall.* Remarkably dry and bright, with very high day temp. Pastures dried up and vegetation suffering. No TSS very near.—*Wallington.* Extraordinarily hot, dry and sunny. The mean temp. and the mean min. are the highest on record. R the smallest in July since 1885, and 2·91 in. below, or little more than one-sixth of, the average. Mean temp. 66°·1, or 4°·6 above average. Duration of sunshine 278 hours, an excess of 88 hours.—*Birchington, Thor.* Very dry and very hot at times. Duration of sunshine 320 hours.—*Sheppey, Leysdown.* The first two or three days were unsettled, followed by fine hot weather to the 20th, when TSS were general; the remainder was fine and hot.—*Crossness.* Dull, cold and windy during the first five days; then fine to the 22nd.—*Lewes, Saxonbury.* Very hot from 4th to 22nd. Total drought for 18 days from 3rd to 20th. Hot and dry from 23rd to the end.—*Bournemouth, Kempsey.* Very dry, and high temp. from 19th; the max. exceeded 80° on three occasions, and was 85°·1 on the 30th. Relative humidity 39 at 6 p.m. on the 30th.—*Christchurch, Winkton Lodge.* Delightful weather throughout. Brilliant skies and splendid nights as a rule.—*West Dean.* Very hot and dry, the only important R occurring in a sharp TS on 11th. The nights were mostly cool, but some were very warm, the highest min. being 63°.

III. *St. Albans, The Grange.* Bright, dry and very warm. R rather less than usual, and mean temp. nearly 4° above the average.—*Slough, Upton.* The temp. rose to, or above, 80° on 12 days, and the duration of sunshine was 285 hours, only one day being sunless.—*Oxford, St. Giles'.* Very fine and warm. Mean temp. 4°·0 above, and R 1·42 in. below, the average.—*Castle Ashby.* Very hot and dry, the temp. rising to, or above, 80° on 12 days; the min. temp. also was very high, being below 50° on only three days.—*Pitsford, Sedgebrook.* Fine and bright

from 4th to 21st. R 1·83 in. below, or less than half, the average of 10 years. Mean temp. 63°·8.

IV. *Colchester, Lexden.* A beautiful month, bright and hot. The heavy R did much good, except to the corn, which was much laid.—*Ipswich, Bishops Hill.* Fine and hot. R ·70 in. below the average.—*Rendlesham Hall.* From 6th to 21st bright and hot, then heavy R for 18 hours.

V. *Bishops Cannings.* Fine and hot; grass getting very scarce at the end. R 2·33 in. below, or less than one-fifth of, the average.—*Mildenhall.* Very hot. This district escaped the TSS which visited other places, and the ground was very dry and pastures very brown.—*Romansleigh Rectory.* A pleasant month with a good many very hot days. The 23rd was very hot and close, with much T and L in the evening, causing a good deal of damage in many parts of Devonshire.—*North Cadbury Rectory.* A truly scorching month, but the extreme dryness of the air made the heat easy to bear. After the 2nd there were not three hours of actual R.—*Batheaston.* The driest July since the record commenced, and, with three exceptions, the driest month.—*Long Ashton Estate Office.* The driest July recorded in 28 years.

VI. *Clifton, Pembroke Road.* Very fine and dry. R ·02 in. in excess of that of July, 1898, which was the driest but one in 43 years.—*Campden, Hidcote.* Very warm throughout. Harvesting began on 24th, which is very early for this part.—*Cheltenham, Southam Villa.* Very hot and dry. Mean temp. 3°·3 above, and R 1·80 in. below, the average of 22 years. R by far the lowest in July, excepting 1885. Max. temp. 80° or above on eight days; at the end gardens were quite dried up.—*Coventry, Priory Row.* A very beautiful month, with warm sunshine generally.

VII. *Worksop, Hodsock Priory.* Warm, especially at night, with local TSS. Haymaking rather hindered by showers. Roots had grown, but did not look healthy.

VIII. *Chelford, Astle Hall.* Fine and very hot in the latter part.—*Bolton, The Park.* Mean temp. 59°·7, or 2°·7 above, and R ·67 in. below, the average. Prevailing wind W. Duration of sunshine 154 hours.—*Southport, Hesketh Park.* Dry, but rather cloudy and exceptionally equable; westerly conditions predominating. R 2·06 in. below, and mean temp. 1°·6 above, average. Subsoil water and brooks steadily falling.—*Chatburn, Middlewood.* R 1·11 in. below the average.—*Seathwaite Vicarage.* Showery, with mostly low temp.

IX. *Hebden Bridge, Falling Royd.* Very warm and dry, and much

sunshine.—*Goldsborough Hall.* Very warm and dry, the temp. rising to 80° or above on four days.—*East Layton.* Unsettled, especially to the 25th, thundery and sultry.—*Middlesborough, Ormesby.* Fine and warm, with little T.

XI. *Llanfrechfa Grange.* Remarkably hot and dry, especially the latter days. No storm rains. Harvest coming on early.—*Dowlais, Gwernllwyn.* Very warm; R only ·90 in. on nine days, or 2·67 in. below the average of 13 years. Mean temp. 59°·1.—*Brecknock, The Barracks.* R at the commencement and on 10th and 11th; afterwards very warm to the end.—*Llandefaelog-fach.* Unusually hot and dry, having the smallest July R since 1885.—*Llanystumdwy, Talarvor.* Beautiful weather on the whole, but rather sultry and close at times.—*Douglas, Woodville.* Fine, and the warmest month since 1887, but no great heat. The R of 1st (1·03 in.) and 11th (1·45 in.) was exceptionally heavy, sewers being flooded and much damage done to roads.

XII. *Maxwelton House.* Wet up to the 24th and bad for haymaking.—*Lilliesleaf, Riddell.* R just about the average. The remarkable part was the excessive stillness and moisture in the air about the middle of the month, which was followed by several days of high wind.

XV. *Craigend Castle.* Dull and showery to the 18th, wet on 24th and 25th, very hot at the end.

XVI. *Coupar Angus.* Mean temp. (61°·4) 4°·4 above, and R ·45 in. above, the average. The agricultural prospects much improved after the end of June.

XVIII. *Glenaladale.* Beautiful and warm. Vegetation luxuriant. Mean temp. 59°·1.

XIX. *Bettyhill.* Bright and genial, with a few wet days and occasional showers.—*Tongue, Talmine.* Unusually favourable for growing crops. Dry without drought, and sufficient sunshine without scorching. The crops better than for many years.

XX. *Cork, Wellesley Terrace.* R 1·14 in. less than the average. Temp. normal.—*Derry Castle.* Copious R generally from 9th to 19th, the remainder being typical summer weather. R 34 per cent. below, and rainy days 33 per cent. below, the average of 10 years.

XXI. *Ballindoney.* Fine and warm, with much T and very heavy R in places.—*Kilkenny, Sion Villa.* Very warm and charming. T on 6th and 22nd. Half-a-mile away torrents of R fell, but there was none here.—*Rathmines, Leinster Road.* The warmest July since 1887, but although the temp. reached 70° on 14 days no very high readings were

registered. Not very wet, though there were some heavy rains. The feature of the month was the abnormal amount of cloud, the mean being 6·0.

XXII. *Collooney, Markree Observatory.* Dry on the whole. R 1·75 in. below the average. The last week very hot and dry.—*Lawderdale.* The first half was wet, the remainder dry and hot.

XXIII. *Belfast, Springfield.* Variable till the last week, which was sunny. Crops, though all late, promise to be satisfactory.

AUGUST.

I. *Kensington, Edith Road.* The warmest month in 16 years. Temp. 5°·9 above, and R 1·64 in. below, the average.—*Muswell Hill.* The driest August since 1880. R 1·96 in., or more than 73 per cent., below the average of 27 years. Absolute drought prevailed for 22 days ending 28th, and in the first 28 days only ·12 in. of R fell.—*Finchley, Etchingham Park.* The driest August in 14 years, with barely three-tenths of the average R. Rainy days 10 less than the average, and absolute drought prevailed for 21 days ending 27th.—*Uxbridge, Harefield Park.* No measurable R fell from July 23rd to August 28th, and, with the exception of August 6th and 7th, every day was hot. Nearly all vegetation was dried up, and leaves were falling like November.

II. *Haslemere, Hazelhurst.* Dry and sunny. Wind generally E. or N.E. From July 27th to August 26th, only ·09 in. of R fell in 31 days. Ground much parched and ponds dried up. Great visibility from 26th to 28th. Mean temp. 65°.—*Cranleigh Common, Homefield Cottage.* Remarkably fine and warm. R ·68 in., of which ·50 in. fell on 28th. Mean temp. 65°·3; much above average.—*Wallington.* Wonderfully hot, dry and sunny. The mean barometer, max. shade temp., min. shade temp., mean temp., duration of sunshine and percentage of sunshine are all the highest August values on record; whilst the mean relative humidity, amount of cloud, wind force and number of rainy days are the smallest, and R the least except 1893. R 1·67 in. below, rainy days 10 below, and mean temp. 4°·6 above, the average. Duration of sunshine 276 hours, or 82 hours above the average. The want of R was detrimental to all garden and root crops.—*Birchington, Thor.* Very dry and hot. Till 26th only ·22 in. of R fell; hot, dry winds prevailed, and everything was parched up. Duration of sunshine 324 hours.—*Crossness.* Hot and dry throughout.—*Lewes, Saxonbury.* Very hot and dry. A splendid harvest month. Pastures

very brown, and cattle and sheep short of food. Total drought for 21 days from the 6th, and partial drought for 36 days ending 28th.—*Bournemouth, Kempsey.* Very hot and dry. Temp. exceeded 80° twice, and was 83°·8 on the 3rd. Absolute drought occurred for 18 days from the 9th, and partial drought for 58 days from July 1st, with ·56 in. of R.—*Christchurch, Winkton Lodge.* Hot and dry; the driest August in eight years. Temp. above 80° on four days. On 27th partial drought for 34 days ended.—*Emsworth, Redlands.* Much sunshine and hot weather, and the ground very dry and cracked. Streams and ponds dry. Absolute drought for 19 days from 8th to 26th.—*Southampton, Red Lodge.* Very dry and hot.—*West Dean.* The hottest and sunniest August since 1870.

III. *St. Albans, The Grange.* Very bright, and exceedingly warm and dry. Mean temp. 5° above, and R about two inches below, the average.—*Culham Vicarage.* Very dry and hot till the last few days.—*Blisworth, Grafton House.* Exceptionally hot and dry, the only R being with heavy T from 5 to 8 p.m. on 15th, and small amounts on four other days.

IV. *Colchester, Lexden.* Very hot and sultry; the country much parched.—*Ipswich, Bishops Hill.* Very hot and splendid harvest weather. An unusual amount of E. wind. R only one-tenth of the average and the least in August in 29 years.—*Rendlesham Hall.* The hottest and driest August remembered.

V. *Tavistock, Whitchurch.* Very hot, sunny and dry, with much electrical disturbance. A good corn harvest was secured by the 26th, and subsequent showers were very welcome. R less than half the average.—*Okehampton, Oaklands.* Very dry and warm until nearly the end, when R fell.—*Romansleigh Rectory.* Generally very fine till towards the end; many very hot days and T on several.

VI. *Clifton, Pembroke Road.* Fine and hot with high barometer till the 27th. R 2·26 in. below the average.—*Cirencester, Further Barton.* Unbroken heat and drought till 27th, when cooler and more cloudy weather set in, with R till the end. Hot and drying E. and S.E. winds for a great part of the month.—*Campden, Hidcote.* Very dry and warm all through, with less R than for many years.—*Ross, The Graig.* The hottest August on record, exceeding both 1871 and 1893. The scorching drought which began on May 25th continued till the 27th of this month, with the exception of the three days June 18th to 20th, when 1·33 in. of R fell, and the 29th, when ·46 in. fell; on no other day was there more than ·20 in., while the 47 days ending

August 27th produced only ·51 in.—*Tettenhall.* R 61 per cent. of the average. Absolute drought for 22 days, and partial drought for 34 days, ended on the 14th.—*Coventry, Priory Row.* Very warm with clear skies and warm sunshine tempered by moderate breezes from E. or S.E., which rendered the climate delightful. The ground generally very dry and parched on the surface, and the moderate R at the end was very welcome.

VII. *Burton-on-Stather.* R 1·61 in. below the average.—*Worksop, Hodsock Priory.* Less R than in any of the last 23 Augusts and higher mean temp. than any except 1893, in which, however, the days were not so warm. More sunshine than in any of the last 18 Augusts.

VIII. *Chelford, Astle Hall.* Dry and sometimes intensely hot. T on five days.—*Bolton, The Park.* Warm, at times phenomenally so, with brilliant sunshine on most days; altogether favourable for harvest. Mean temp. 61°·1, or 4°·6 above, and R 2·99 in. less than, the average, the former being the highest and the latter the lowest recorded in August. Duration of sunshine 144 hours, or 31 hours above the average.—*Southport, Hesketh Park.* Exceptionally warm, and sunny, dry and calm generally. Pressure remarkably steady, and the mean unusually high. R 2·29 in. below, sunshine 71 hours above, and mean temp. 4°·4 above, the average. Mean daily range 3°·9 in excess of the average. Underground water extremely low. Strangely little ozone.—*St. Michael's-on-Wyre Vicarage.* The driest August recorded, and the mean temp. (63°·1) is the highest ever registered in any month.—*Chatburn, Middlewood.* R 3·74 in. below the average, and the smallest in 16 years.—*Broughton-in-Furness.* Very fine, dry and hot for the most part, and the driest August on record.—*Duddon Valley, Seathwaite Vicarage.* Exceptionally warm and dry.

IX. *Doncaster, Wadworth Hall.* Remarkably dry.—*Hebden Bridge, Falling Royd.* Very warm and dry; the driest August of any of the last 12, and the warmest with one exception.—*Goldsborough Hall.* Very hot and dry, the shade temp. reaching 80° or above on eight days. Very little R till 27th.

X. *Keswick, Shu-le-crow.* R 2·17 in. on 12 days, which is the smallest fall since 1880, when only 1·19 in. fell on six days.—*Brampton, Denton House.* Brilliant sun, dry winds and extremely warm. R four inches less than the average, falling on only eight days

XI. *Llanfrechfa Grange.* Very hot and dry till the 27th; R much wanted.—*Llanvihangel Court.* Very dry and sunny, with N. and E. winds. Drought caused serious inconvenience.—*Dowlais, Gwernllwyn.*

Very warm and dry. R on only seven days, and 2·52 in. below, or less than half, the average. Mean temp. 60°·6. T on nine days; L on five days.—*Brecknock, The Barracks.* Extremely warm. Showery towards the close.—*Llandefaelog-fach.* Very hot and dry, with absolute drought from 8th to 14th and from 15th to 27th, when the weather broke up.—*Llanystumdwy, Talarvor.* Very hot throughout.—*Llwydiarth Esgob.* R ·93 in., being the least in August since 1861.—*Douglas, Woodville.* We must go back many years for another such beautiful August. With the temp. throughout much above average, and drought combined, it was trying for gardens, grass lands and root crops.

XII. *Moniaive, Maxwelton House.* Very fine and hot up to the 27th. Mean temp. 63°·0, or 4°·0 above the average.—*Lilliesleaf, Riddell.* R 2·40 in. below, or less than one-third of, the average. The earliest harvest remembered and the crops excellent.

XV. *Craigend Castle.* Very hot and dry; R on only 10 days.—*Ballachulish, Ardsheal.* R 4·62 in. below the average. Absolute drought for 15 days ended on 13th.

XVI. *Coupar Angus.* R 2·46 in. below the average. Mean temp. the highest for 20 years, being 59°·7, or 4°·0 above the average.

XVIII. *Loch Shiel, Glenaladale.* A beautiful month; very hot and dry. Mean temp. 62°·4.—*Drumnadrochit.* R the least for August in 15 years. The heat was scorching, and crops of all kinds suffered greatly. In the first 24 days only ·08 in. of R fell.

XIX. *Bettyhill.* Exceptionally fine and dry almost throughout.

XX. *Cork, Wellesley Terrace.* R 1·65 in. less than the average. Mean temp. 63°·0, or 3°·4 above the average, and the highest in 16 years.—*Killarney, Woodlawn.* The mean temp. is the highest for any month in more than 20 years.—*Derry Castle.* A splendid harvest month, and the driest August in the present decade. R 44 per cent. below, and rainy days 32 per cent. less than, the average of 10 years.—*Miltown Malbay.* The warmest August since 1887. A whole week in the early part had T each day and but little R. This was followed by a fortnight of burning weather, great for harvesting. Heavy R with occasional T prevailed in the last week.

XXI. *Ballindoney.* Intensely hot, the temp. rising above 70° on 28 days.—*Kilkenny, Sion Villa.* The intense heat of July was succeeded by a TS of unusual severity; the month otherwise was charmingly fine.—*Rathmines, Leinster Road.* The finest August since

at least 1884, and the warmest since 1887. The average max. (70°·7) was the highest in any month since 1882, excepting July 1887.

XXII. *Markree Observatory.* Very dry. R 1·18 in. below the average, and falling mostly in the first and last few days. Duration of sunshine 207 hours.—*Lawderdale.* The first three weeks were very hot and dry; the last week was wet.

SEPTEMBER.

I. *Muswell Hill.* R ·63 in., or 26 per cent., above the average of 27 years.—*Finchley, Etchingham Park.* R ·54 in., or 28 per cent., above the average of 13 years. Three-fourths of the R fell in the last 16 days, and the second week was rainless.

II. *Cranleigh Common, Homefield Cottage.* Fine and warm, except for TSS on 6th and 7th and heavy R on 29th.—*Abinger Hall.* A mild and genial month on the whole, with frequent showers but no heavy R, to get into the ground, until the end. Frost, injuring vegetation, on 20th.—*Wallington.* Fairly warm and of average R but for a heavy fall on 29th. The R was of great benefit to all root and garden crops. Mean temp. 0°·9 above the average. R 1·06 in., and rainy days 4, above the average. Duration of sunshine 176 hours, being 16 hours above the average and 47 per cent. of the possible.—*Birchington, Thor.* The early part was dry, but from the 14th it was showery, and stormy at the close. Duration of sunshine 235 hours.—*Sheppey, Leysdown.* Exceedingly fine, as all the R up to the 29th fell during the night. After the 19th it was very unsettled, with considerable force of wind. Several white frosts.—*Bexhill, Millfield.* R 5·17 in., which exceeds any past record for September.—*Lewes, Saxonbury.* After heavy showers on 2nd, dry weather lasted till the 15th with high temp., followed by broken weather with heavy R and TSS during the last five days.—*Emsworth, Redlands.* Extremely hot, dry and sunny until the last few days. More T and L than usual.—*Southampton, Red Lodge.* Very hot and dry. Everything scorched up and gardens required constant watering.

III. *St. Albans, The Grange.* Rather warm and wet, but the air exceedingly dry, the relative humidity being 12 per cent. below average.—*Culham Vicarage.* Showery and changeable, with variable temp.—*Pitsford, Sedgebrook.* Wet and stormy. R 2·13 in. above the average. Mean temp. 56°·0.

IV. *Colchester, Lexden.* The first week was hot, followed by cold,

fresh, dry weather till 27th, R being sorely needed. Ponds and wells very low.—*Swaffham, Homewood.* More than one-fifth of the year's R fell in this month.

V. *Bishops Cannings.* R ·42 in., and rainy days 3, above the average. The ground was still very dry on the 25th, but during the last eight days 1·56 in. of R fell.—*Tavistock, Whitchurch.* Showery and cloudy, with average, but variable, temp. R below the average. Wells very low throughout.—*Okehampton, Oaklands.* A complete change from the drought of the summer, and cold for the time of year.—*Romansleigh Rectory.* Fine and pleasant till after the middle of the month, then showery.—*North Cadbury Rectory.* Warm and summerlike from 1st to 14th. All inconveniences of drought were removed by an inch-and-a-half of R from August 27th to September 2nd, and by the heavy R after the heat on 5th. From 15th to the end was chilly, with continual small rains and high wind.

VI. *Clifton, Pembroke Road.* Mostly fine from 6th to 18th, when it became unsettled, and the last week was very stormy with 2·25 in. of R, bringing up the total to ·40 in. above the average.—*Cirencester, Further Barton.* Very hot till the 8th. From 18th to 30th rough, squally and cold, but no great fall of R.—*Ross, The Graig.* The extremely dry and hot weather of the summer may be said to have ended on September 18th, although nearly an inch of R fell on 6th and 7th.—*Coventry, Priory Row.* A pleasant month, with a good deal of fine, bright weather, but a grand rainfall, and grass was growing abundantly at the end.—*Bedworth Cemetery.* R 5·66 in., the greatest monthly fall since the gauge was fixed in 1890.

VII. *Worksop, Hodsock Priory.* A normal month; the latter part rather wet and stormy.

VIII. *Chelford, Astle Hall.* Wet and hot at times. T on six days. —*Bolton, The Park.* More or less unsettled throughout, with an unusual amount of R and intermittent spells of sunshine. Excepting 1896, it was the wettest September since the record began in 1886. Mean temp. 55°·0, or 1°·0 above the average. R 3·07 in. above the average. Duration of sunshine 79 hours, or five hours less than the average.—*Southport, Hesketh Park.* In many respects normal, but exceptionally stormy from 15th to 27th. R ·37 in. above, sunshine 3 hours below, and mean temp. 0°·5 above, average. Slight frost on grass on 28th and 29th. S.W. to N.W. winds almost continuously, and daily range of temp. small. In the third week the water level was the lowest recorded since the observations began. Ozone pretty

abundant.—*Chatburn, Middlewood.* The wettest September on record, the R being 3·65 in. above, or more than twice, the average.—*Seathwaite Vicarage.* A rainy month, with temp. generally low throughout.

IX. *Wakefield, Stanley Grange.* Wet, the R being 2·29 in. above the average.—*Hebden Bridge, Falling Royd.* Fine till the 14th, and quite a water famine. From July 4th to September 14th, 73 days, only 2·96 in. of R fell, then from September 15th to October 3rd, in 19 days, 8·52 in. fell.—*Goldsborough Hall.* The first half was fine and warm, with less than ·25 in. of R, but from the 16th to the end was generally very rough and stormy, with only one rainless day.

XI. *Llanfrechfa Grange.* The much wanted R was very acceptable, the springs being very low. Temp. fell rapidly after 13th.—*Dowlais, Gwernllwyn.* R ·18 in. above the average of 13 years. Mean temp. 51°·4. Very high W. and N.W. winds on 18th and 22nd. Frost on four days.—*Douglas, Woodville.* The unusually fine, warm weather experienced through the previous three months continued to September 14th, when it completely broke up, followed by violent gales almost without intermission, and much R to the end.

XII. *Maxwelton House.* The first half was fine with some showers, but colder and stormy weather prevailed from the 14th.—*Lilliesleaf, Riddell.* R ·86 in. above the average, but though it fell on 23 days it did not much interfere with the harvest, as there was no fog or drizzle and a good breeze throughout. Springs were dry, but the R of 29th and 30th filled them.

XIV. *Glasgow, Queen's Park.* Very wet and unsettled. Cold and frosty nights at the end.

XV. *Craigend Castle.* The first half was showery, the second half wet and stormy.—*Ballachulish, Ardsheal.* Wet, with continuous W. winds and gales after the 17th. R 1·57 in. above the average.

XVIII. *Glenaladale.* Very wet and stormy, and rather cold towards the end. Mean temp. 52°·4.

XIX. *Tongue, Talmine.* The wettest month for two years at least. On some days the R fell constantly, but generally it fell heavily at night and in the early morning. Then in the evening strong gales of wind set in. The harvesting of corn was retarded.—*Watten, H.R.S.* Windy and continuously wet, but no floods.

XX. *Cork, Wellesley Terrace.* R less than half, and mean temp. 2° below, the average.—*Derry Castle.* R exactly the average, and, although the rainy days were 23 per cent. in excess, the month was on the whole very favourable for harvesting operations.—*Miltown*

Malbay. Very rainy, with the exception of the first week. Low temp., showers of H, and sheet L in the last week.

XXI. *Kilkenny, Sion Villa.* Fine weather continued till the 15th, when it became very cold, dark and raw. Strong gales from 17th to 21st, and stormy nearly all the rest of the month.

XXII. *Markree Observatory.* R 1·17 in. above the average. Duration of sunshine 99 hours. Much R and frequent H showers in the latter half.

XXIII. *Belfast, Springfield.* Very fine and hot till the 15th, when the weather broke up. Not much R till the 21st, but from thence to the end low temp., R and gales.

OCTOBER.

I. *Muswell Hill.* R ·54 in., or 17 per cent., below the average of 27 years. From 5th to 25th R fell on only the 11th and 12th.—*Finchley, Etchingham Park.* R ·49 in., or 17 per cent., less than the average of 13 years, and rainy days 7 below the average. In the three weeks, 5th to 25th, R fell only on 11th and 12th, followed by 13 rainless days.

II. *Haslemere, Hazelhurst.* Fine and sunny for 19 days in the middle of the month, much R at the beginning and end, two falls of more than an inch. One frost in screen and eight on grass.—*Cranleigh Common, Homefield Cottage.* Rainy periods from 1st to 4th and 26th to 30th; the remainder fine.—*Abinger Hall.* A very fine and open month.—*Wallington.* Exceedingly calm, with about average temp. and a small R, the wind force being the lowest October value recorded. Fogs were very prevalent, especially between the 16th and 24th, and railway traffic was greatly interfered with. R 1·06 in., and rainy days 4, below the average. Duration of sunshine 122 hours, an excess of 20 hours.—*Sheppey, Leysdown.* Nearly all the R fell in the first and last weeks of the month, from the 6th to the 25th being very fine but generally foggy in the morning.—*Crossness.* Fairly dry, with occasional heavy showers. Frequent foggy mornings.—*Crowborough.* Very fine on the whole, warm and pleasant; no less than seven days with bright sun all, or nearly all, day. R a good deal less than the average, and practically confined to the first five and the last six days.—*Bournemouth, Kempsey.* Very fine and pleasant, with only ·08 in. of R between the 4th and 26th, and an exceptional amount of sunshine, 53 hours more than the average and 49 per cent. of the possible duration, the highest yet recorded in this district for October. There were

four sunless days.—*Christchurch, Winkton Lodge.* Splendid weather throughout, and the autumn tints very fine. Temp. high and much bright sunshine; many days perfectly calm. Drought from 5th to 25th, with the exception of ·03 in. of R on 12th. Frost in the middle of the month.—*West Dean.* Very fine, with fog and white frost on 18 days; very dense fog from 17th to 25th. An extraordinary absence of wind. Owing to drought, ponds were quite dry and springs very low. A welcome heavy R on 26th and 27th yielded 2·37 in. in 48 hours.

III. *St. Albans, The Grange.* Rather bright and warm. R about the average.—*Slough, Upton.* Very misty from 16th to 23rd. Duration of sunshine 98 hours.—*Culham Vicarage.* Dry, except at the beginning and end. A good deal of fog and many night frosts.—*Oxford, St. Giles'.* Considerable range of temp., varying from 75° on 17th to 31° on 19th and 20th. Mean temp. 1°·2 above the average. R about the average of 12 years, but rainy days 7 below. Fog morning and evening from 6th to 11th and 16th to 26th.—*Pitsford, Sedgebrook.* R ·29 in. less than the average. Mean temp. 47°·3. Fog from 19th to 22nd inclusive.—*Wisbech, Elm.* As a whole fine, with still weather. Fog in the early mornings on many days, but generally clearing between 11 and noon.

IV. *Lexden, Hill House.* Cold and dry till the 25th, with many bright days following thick early morning fogs. Heliotrope killed by frost on 18th.—*Ipswich, Bishops Hill.* Fine, bright and dry, with many foggy nights and mornings and great variation of temp. R 1·07 in. less than the average.

V. *Bishops Cannings.* R ·44 in., and rainy days 7, less than the average.—*Okehampton, Oaklands.* A mild, dry month.—*Romansleigh Rectory.* Very little R from the 5th to the 25th. St. Rumon's Well, supplying the village, was dry for several weeks.—*Wellington, The Avenue.* Generally fine and quiet until the last week, when stormy conditions prevailed. R nearly an inch below the normal.—*North Cadbury.* The first four days were unsettled, but from 5th to 25th was a spell of singularly quiet and sunny weather, the days warm and equable and the nights not cold. Nasturtiums were untouched by frost at the close.

VI. *Clifton, Pembroke Road.* Drought from 8th to 24th, with the exception of a slight fall on 12th. Foggy mornings, fine days and nights with ground frosts, prevailed during most of this period, with E. winds and high bar. Heavy R in the last week brought up the

total almost to the average.—*Cirencester, Further Barton.* Rough and wet to the 4th and from the 26th to the end. The remainder unusually fine, with many cloudless days and frosty, foggy nights. The autumn foliage was unusually late in falling and very fine.—*Ross, The Graig.* The first four and last six days were wet, but with the exception of a ten-minutes' squall on 12th, scarcely any R fell between. There were a remarkable number of fogs, some unusually dense, and the temp. fell considerably, though there was no severe frost. R about the average.—*Coventry, Priory Row.* Remarkably fine, the Indian summer lasting about three weeks. Frequent foggy mornings changed about 10 a.m. into lovely days.

VII. *Worksop, Hodsock Priory.* Fine, with cold nights and not much R.

VIII. *Chelford, Astle Hall.* Unusually warm and pleasant.—*Southport, Hesketh Park.* Unusually cloudless and sunny, with high mean daily range of temp. S.E. winds prevalent. Mean sea, and one foot earth, temp. a couple of degrees below, but mean air temp. 0°·3 above, the average. Frost in screen on three days and on grass on 11. R ·88 in. below, and sunshine 46 hours above, the average. Moderate and fresh gales on eight days, H on five, and fog on five mornings.—*Chatburn, Middlewood.* R 1·63 in. less than the average of 10 years.—*Broughton-in-Furness.* With the exception of a day or two of high wind and stormy weather at the beginning and at the end, the month was a most beautiful one.—*Seathwaite Vicarage.* Exceptionally warm and pleasant, with moderate R.

IX. *Hebden Bridge, Falling Royd.* Very dry and sunny after the first three days.—*Goldsborough Hall.* The first few days were stormy, more R falling on the 1st than on any other day of the year. Dense fogs from 18th to 22nd.—*Thixendale.* Brilliant weather in the middle of the month.—*Middlesborough, Ormesby.* Fine and seasonable, with 2·10 in. of R on 1st.

X. *Newcastle, The Quarries.* Unsettled and warm from 1st to 3rd; then calm with cold nights till 9th; from 9th to 12th warm and windy; then calm with cold nights again till 24th; the remainder very windy. R 1·49 in. below the average. Mean temp. 47°·6.—*Brampton, Denton House.* R an inch, and number of days on which it fell 7, less than the average of 13 years. In the 21 days ending 25th only ·25 in. of R fell.

XI. *Llanfrechfa Grange.* Very warm all through and the air excessively damp. Rather gusty in the last week, otherwise calm.—

Dowlais, Gwernllwyn. R 1·08 in. below the average of 13 years. Mean temp. 44°·9. Frost on 11 days.—*Llandefaelog-fach.* On the whole a bright autumnal month, with a few days of thick fog. Autumn tints very lovely.—*Douglas, Woodville.* The violent storms of the last half of September continued to October 3rd, and were succeeded by three weeks of fine autumn weather, giving a fine, mild month on the whole, with R below the average.

XII. *Lilliesleaf, Riddell.* Very fine. R much below, and temp. much above, the average. Wells were still quite empty in places at the close and water was scarce.

XV. *Craigend Castle.* As a whole wet and stormy, but fine, though dull, in the middle.—*Ballachulish, Ardsheal.* A wet month; R 2·41 in. above the average.

XVI. *Coupar Angus.* Remarkably good for harvesting. Mean temp. 1°·4 above average, and R 1·06 in. below, or considerably less than half, the average.

XVIII. *Glenaladale.* A mild, wet month, with a spell of fine weather about the middle. Mean temp. 48°·7.

XIX. *Bettyhill.* The early part was cold, wet and stormy; the remainder fine and seasonable, with some strong gales.—*Tongue, Talmine.* The first part of the month was rainy, but the middle was fine and dry, so that harvesting was safely accomplished.—*Watten, H.R.S.* The opening days were wet and cold, but the remainder was exceptionally dry and fine for October, and gave a splendid finish to a rather protracted harvest.

XX. *Dunmanway, Coolkelure.* Remarkable for mildness (except for frosts on 5th and 13th) until the 29th, when a heavy storm of R and wind occurred.—*Cork, Wellesley Terrace.* R less than half the average temp. 1°·2 below average.—*Derry Castle.* The driest October since 1892. R 34 per cent. below, and rainy days 32 per cent. below, the average of 10 years.—*Miltown Malbay.* One of the finest Octobers remembered. The first three weeks a regular Michaelmas summer, the last week rainy.

XXI. *Ballindoney.* A very variable month. Heavy R on 29th.—*Kilkenny, Sion Villa.* Very fine, especially during the first half; subsequently very cold and overcast. Frost from 6th to 8th, and fogs on 9th, 14th, and from 20th to 24th, the last very thick. Storms on 2nd and 29th.—*Rathmines, Leinster Road.* Much finer and drier than usual, and the duration of sunshine much above the average. No

heavy R and only one severe gale. Temp. varied considerably, the first week being actually the coldest.

XXII. *Lawderdale.* A favourable month, with R on only 13 days.

XXIII. *Belfast, Springfield.* Grand autumn weather, with light rainfall, no storms and only occasional slight frosts.

NOVEMBER.

I. *Kensington, Edith Road.* R 3·93 in., or 1·51 in. more than the average. It all fell in the first 11 days, the remaining 19 being an absolute drought.—*Finchley, Etchingham Park.* The R was very remarkable, the whole (4·18 in.) falling in the first 11 days, and being 1·63 in., or nearly 64 per cent., above the average of 13 years. Two falls exceeded an inch in 24 hours, 1·26 in. on 3rd and 1·16 in. on 5th, while absolute drought prevailed for the last 19 days.

II. *Haslemere, Hazelhurst.* Out of 6·84 in. of R on 12 days, 6·72 in. fell on nine consecutive days, while in 15 days ending November 9th 8·72 in. fell. Ten sunless days. A good bowl of roses gathered at the end of the month. Two frosts in screen, eight on grass.—*Cranleigh Common, Homefield Cottage.* Much R from 1st to 9th, including the two heaviest falls of the year, 1·62 in. on 3rd and 1·66 in. on 5th; the remainder variable but dry. Total R 5·56 in., of which 5·54 in. fell from 1st to 9th.—*Kenley, Hazelea.* In the first seven days no less than 4·26 in. of R fell, 1·35 in. falling on 3rd and 1·40 in. on 5th.—*Wallington.* Warm and, after the first 11 days, very dry, there being absolute drought for 19 days. The mean temp. is the highest, and the mean humidity the lowest, on record for November. The R, though less than that of November 1887, is remarkable in that there were two days on which more than an inch fell, and few rainy days. R 1·29 in. above, and rainy days 8 below, the average of 10 years. Mean temp. 47°·6, or 3°·4 above the average. Duration of sunshine 55 hours.—*Birchington, Thor.* From the 2nd to the 9th was wet, followed by fine and very mild weather to the end. Duration of sunshine 74 hours; 14 sunless days.—*Sheppey, Leysdown.* The first nine days were very unsettled, with R every day and strong gales; after that date it continued fine, calm and mild, and generally dull, with an occasional sunny day. Only two white frosts.—*Erith, Crossness.* R from 6 p.m. on 4th till 10 a.m. on 6th without cessation; generally fine after the 8th.—*Haywards Heath, Brook House.* The R was very remarkable, as it all fell in the first 11 days. In six days from 2nd to 7th 5·13 in.

was recorded.—*Crowborough.* Practically the whole of the R fell in the first 10 days; after that it was very dry, and after the 20th there was no heavy dew and less moisture in the air. From 18th for a week there was no sunshine, but dull, grey skies and typical November weather. The bar. was very high and the nights were warm.—*Bournemouth, Kempsey.* Very mild, the nights remarkably so. Min. temp. above 40° on 25 nights, and 54°·0 on the 5th. No frosts in shade and only two on grass. R 5·32 in. (more than double the average) in the first nine days, followed by absolute drought for 20 days from the 10th.—*Christchurch, Winkton Lodge.* The R (3·60 in.) all fell (with the exception of ·01 in.) on the first nine days, with gales which destroyed the autumn foliage. A good deal of wind, but pleasant weather with high bar.—*Emsworth, Redlands.* November gave the curious combination of 1·15 in. more R than the average and absolute drought for 20 days.

III. *St. Albans, The Grange.* Very mild and rather wet. Mean temp. more than 3° above, and R nearly an inch above, the average. No R fell after the 10th.—*Kensworth.* Springs began to sink on October 16th; on 21st the springs which supply this well, 132 feet deep, had sunk 12 feet, and the well was quite dry on November 15th. —*Slough, Upton.* Despite the heavy total, virtually no R fell during the last two-thirds of the month. The temp. rose above 60° on three days, and there were many warm nights. Duration of sunshine 50 hours.—*Culham Vicarage.* A good deal of R fell in the first part, but there was absolute drought after the 11th. Much fog in the middle; mild on the whole.—*Oxford, St. Giles'.* Absolute drought prevailed after the 11th, but the R is ·23 in. above the average. Mean temp. nearly 3° above the average of 12 years, and the max. (64°) unprecedented.—*Blisworth, Grafton House.* Strong S.W. gales and heavy R from 3rd to 10th inclusive, with 2·12 in. of R, this being the total for the month.—*Northampton, Sedgebrook.* The first part was rather wet and squally; the latter very mild, still and dry. R ·71 in. below the average. Mean temp. 45°·2.—*Wisbech, Elm.* Wonderfully still and, after the first few days, dry; otherwise no particular characteristics.

IV. *Colchester, Lexden.* Mild and open, with little fog. Very heavy R in the first week, then dry.—*Ipswich, Bishops Hill.* Out of a total of 2·85 in., 2·50 in. fell during the first week; the other three weeks were dry and mild, dust blowing in the last week. Fog was general throughout, with midday sun. R ·62 in. above the average.

V. *Bishops Cannings.* R ·29 in., and rainy days 7, below the average.—*Bere Regis, Bloxworth Rectory.* R 4·81 in., of which 4·60 in. fell from 3rd to 9th inclusive.—*Tavistock, Whitchurch.* Warm and cloudy, with about the average R. In the seven days, 3rd to 9th, 4·58 in. fell, but only ·07 in. in the last 18 days. Gales on eight days. Fog on five days. Solar halos on two days; lunar halos on three.—*Romansleigh Rectory.* Wet till the 9th, then fine generally till the end of the month.—*Wellington, The Avenue.* The first part was generally stormy and wet; the latter fine, but dull and quiet. Temp. rather high, and the R about ·75 in. below the normal.—*North Cadbury Rectory.* The first 10 days were very boisterous and wet, though warm, nearly all the R falling at night. The last 20 days were uniformly calm, with overcast sky and high temp. The air was not humid, and the roads were good for cycling to the end. Ponds by November 30th were almost as low as on October 26th, but brooks not so.

VI. *Clifton, Pembroke Road.* R slightly below the average, nearly the whole occurring in the first 11 days, which constituted a very stormy period with frequent gales, mostly from S.W. From the 12th to the 30th was fair, calm, mild, and rainless, but for ·01 in. on 24th.—*Cirencester, Further Barton.* Till the 11th very rough and stormy, with quickly succeeding westerly gales and much electrical disturbance. From that date to the end dry with light breezes. The springs rose for the first time on the 8th.—*Ross, The Graig.* Wet weather continued till the 9th, 3·40 in. of R having fallen in 15 days. The rest of the month was very fine. The warmest November since 1881, and chrysanthemums remained in good bloom. No severe frost. —*Coventry, Priory Row.* The early part was rough and stormy; the latter part very fine, dry and delightful.

VII. *Hemingby.* Some very pleasant days and remarkably high temp. at the beginning; 56° at 11.45 p.m. on 2nd and 61° at 11.30 p.m. on 4th.—*Burton-on-Stather.* R 1·24 in. below the average.—*Worksop, Hodsock Priory.* Very warm, with a good deal of high wind but little R.

VIII. *Chelford, Astle Hall.* Fine, warm and dry.—*Garston, Grassendale Park.* R 1·83 in. below the average and the least in 22 years. —*Liverpool, Huyton Vicarage.* Remarkable for dryness and great mildness.—*Bolton, The Park.* The first 11 days were very unsettled and squally, with southerly gales at times. The remainder was dry and calm, with fog, or misty and cloudy skies. Mean temp. 46°·6, or 2°·2 above the average, and only once exceeded in November. Only

one frost in shade. R 1·54 in. below the average. Duration of sunshine 17 hours.—*Southport, Hesketh Park.* By far the warmest November since observations began in 1871. S. to W. winds greatly predominating. Cloudy but dry. R 1·20 in. below the average, practically the whole falling in the first half of the month. Mean temp. 5°·4 above, and sunshine 11 hours below, average. Frost in screen on three, and on grass on only four, nights. Gales on six days.—*Chatburn, Middlewood.* R ·52 in. less than the average of 10 years.—*Seathwaite Vicarage.* Very mild and rainy, with no S and but the mildest frost.

IX. *Wakefield, Stanley Grange.* Mild and dry, the mean temp. being 0°·4 above that of October.—*Hebden Bridge, Falling Royd.* Mild, dry and free from fog.—*Thixendale.* A fine month on the whole, ending very mild.

X. *Keswick, Shu-le-crow.* Heavy R, the river overflowing its banks on 3rd and 4th. Four falls of more than 2·00 in. occurred between October 29th and November 7th.—*Cockermouth, Brandlingill.* There was an extraordinary fall of 6·79 in. of R in the first seven days.

XI. *Llanfrechfa Grange.* The early part was very boisterous, the latter part calm and hazy, though with some sunshine; very favourable for farm and garden operations. Only two sharp frosts.—*Llanvihangel Court.* Very warm; only two nights with low temp.—*Dowlais, Gwernllwyn.* R ·23 in. above the average. Mean temp. 42°·0. Frost on four days.—*Llandefaelog-fach.* The first fortnight was very wet; the latter half on the whole dry and pleasant.—*Douglas, Woodville.* Wet and stormy to the 14th, followed by absolute drought and generally fair, calm, "reposeful" weather to 30th, which was wet and stormy. R much below the average. Temp. high throughout. Strong winds on 12 days, reaching the force of a gale on nine.

XII. *Maxwelton House.* From 1st to 14th was very wet and stormy; from 15th to 30th very fine and mild, but slight frost occurred on 18th and 19th. Mean temp. 45°·5, or 3°·5 above the average.—*Lilliesleaf, Riddell.* The first half was very wet, the second half very dry; total R 1·26 in. above the average. The whole month was remarkable for excessive mildness.

XIV. *Glasgow, Queen's Park.* Remarkably free from frost or winter weather, and the latter half very mild, the min. on grass being as high as 48° on two occasions.

XV. *Craigend Castle.* Wet and stormy throughout.—*Ballachulish, Ardsheal.* Almost continuous S. or S.W. gales from 1st to 10th.

XVI. *Coupar Angus.* A month of average R. Mean temp. 44°·3,

being the highest on record for November and particularly high during the last week.

XVIII. *Glenaladale.* Very wet, very stormy and very mild. Mean temp. 47°·7.

XIX. *Bettyhill.* Occasional very heavy R, and violent gales, generally from the W.

XX. *Dunmanway, Coolkelure.* Remarkable for the heavy R of the first 10 days (6·46 in.), also for the extreme mildness and stillness of the last 20 days. Roses and myrtles in blossom to the end.—*Cork, Wellesley Terrace.* R 1·37 in. short of the average, and there was absolute drought for 18 days ending 29th. The mean temp. was 2° above the average, and it is the only November without frost since 1883.—*Killarney, Woodlawn.* Very fine and dry autumn weather. Dahlias, nasturtiums and potatoes making free growth.—*Miltown Malbay.* The first half was wet, with some stiff gales; the latter half fine and dry. The whole generally mild.

XXI. *Ballindoney.* The first seven days were stormy, with 2·83 in. of R, but none fell from 15th to 29th, though it was dull most of the time.—*Kilkenny, Sion Villa.* Dark and gloomy. Gales and storms frequent throughout. Fog on 18th, 19th and 29th. Absolute drought from the 15th to 29th.—*Rathmines, Leinster Road.* Abnormally mild and unseasonable. The mean temp. (48°·8) was higher than that of October, and by far the highest on record for November. Remarkably dry from 11th to the end. Heavy gales in the first week. L on five nights. No S, sleet or frost.

XXII. *Markree Observatory.* The first half was rough and wet, but afterwards it was dry and calm on the whole. R ·73 in. in excess of the average of 16 years, nearly nine-tenths of it falling in the first fortnight. Duration of sunshine 43 hours, being 15 hours less than the average.

XXIII. *Belfast, Springfield.* Fine and open, with little or no frost. Most of the R fell from the 1st to the 14th, and the weather during the latter half was more like September than November.

DECEMBER.

I. *Muswell Hill.* R ·87 in., or 36 per cent., less than the average of 27 years. R or S fell on 16 days, but the amounts were generally small.—*Finchley, Etchingham Park.* R ·86 in., or 37 per

cent. less than the average of 13 years. On only four days did the fall exceed ·10 in.

II. *Haslemere, Hazelhurst.* Much the coldest month of the year. Skating began on 12th and the ice bore till Christmas, and skating began again on 27th. Mean temp. 34°·5 ; 22 frosts in screen and 25 on grass. S on four days.—*Cranleigh Common, Homefield Cottage.* The coldest month of the year. Variable from 1st to 8th, then frosts and some S to the 20th ; the remainder variable and rainy.—*Dorking, Abinger Hall.* Very changeable, with much fog and some very cold weather.—*Wallington.* Very cold, damp and unhealthy. The wind-force is the lowest December value on record, and fogs were prevalent. R ·55 in. below, and rainy days 6 above, the average of 10 years. Mean temp. 36°·1, being 1°·7 below the average. Duration of sunshine 38 hours.—*Birchington, Thor.* The early part was mild and dull, but there was a sudden change to winter on the 8th, and a heavy fall of S on 10th ; the weather continued cold and wintry to the end. Duration of sunshine 64 hours.—*Lewes, Saxonbury.* The first week was mild, and afterwards there was frost, fog and mist.—*Crowborough.* On the whole cold, the shade temp. falling to, or below, 32° on 21 nights. A sharp frost set in on 8th and continued for 14 days, with one day interval of thaw.—*Bournemouth, Kempsey.* Cold and dull, with a sharp spell from 8th to 18th. Slight S on the 8th. Partial drought for 31 days from Nov. 10th.—*Christchurch, Winkton Lodge.* Dull, with many sunless days and the smallest R for December in eight years, yet there were only nine rainless days. Frost in the middle of the month, but only a few days' skating. A brilliant Christmas Day, the finest day of the month.—*West Dean.* Very cold and foggy, with deficient R. The most foggy and dark December for 13 years, and the coldest since 1890. The temp. was almost stationary from 19th to 27th, and S which fell on 11th remained unmelted until 27th. S or sleet fell on four days, the greatest depth being about two inches.

III. *St. Albans, The Grange.* Cloudy, cold and rather dry.—*Slough, Upton.* Duration of sunshine 32 hours, chiefly on 4 days, 19 days being totally sunless and two others having less than 15 minutes of sunshine. —*Goring, Elmcroft.* A week before the frost began the max. temp. was 53°, and roses were blooming in many gardens.—*Oxford, St. Giles'.* A cold month with nearly average R.—*Swerford.* Fog on 14 days and 14 sunless days. S fell on seven days to the depth of about six inches. —*Pitsford, Sedgebrook.* R ·59 in. below the average. Mean temp.

35°·3.—*Wisbech, Elm.* Wonderfully still, and cold without extreme temp. A good deal of fog and damp mist.

IV. *Colchester, Lexden.* Generally dull and mild, but a cold spell from 10th to 16th, with skating on 15th.—*Ipswich, Bishops Hill.* Very variable, with fog, wind, frost and sun. R ·43 in. less than the average.—*Sudbury, Friars Street.* Seasonable. Rather wintry in the second week, with sharp frosts and some S. Milder at the end.

V. *Tavistock, Whitchurch.* Rather cold, with R slightly below the average. Slight S on five days, Dartmoor being white from 8th to 15th. Solar halos on 3 days and lunar halos on 3 days.—*Okehampton, Oaklands.* The first three weeks were mild and dry, but the remainder was cold and wet.—*Romansleigh Rectory.* Generally fine for the first three weeks, then wet. Very cold about the middle.—*Barnstaple Athenæum.* R ·25 in. less than the average. Mean temp. 39°·9, or 3°·5 below the average.—*Wellington, The Avenue.* Cold, with violent changes from frost to cold R and *vice versâ.* Much foggy, dull weather and frequent R, but little more than the normal amount. —*North Cadbury Rectory.* On the whole the coldest month in the last two years. The chief feature was the prolonged calm. There was not even a high wind from November 11th to December 27th, and on 12 days in December the wind was hardly perceptible. From 1st to 7th was mild and dry; from 8th to 21st cold, with clear, bright frost on 11th, 14th and 15th, but most of the time gloomy and damp with temp. near freezing point. What little S fell melted at once, and the ground was never really covered. From 22nd to 31st was milder, excepting the 27th.

VI. *Cirencester, Further Barton.* Low temp., much mist and fog, a few days of intense cold, and absence of wind till quite the end.—*Ross, The Graig.* The first six days were very warm, but the rest of the month was very cold, with exceptionally severe frost on 15th and 16th. The Wye was completely frozen over for several days, which is most unusual, especially in December. There were many very gloomy days. —*Coventry, Priory Row.* On the whole dark and gloomy, but good for the land and for farming.

VII. *Worksop, Hodsock Priory.* The coldest December since 1892. On the 14th the temp. in screen fell to 6°·4, and on the snow to, —6°·7 the lowest readings in December since 1879.

VIII. *Bolton, The Park.* After the 6th the weather became cold, with S on the ground from the 11th (when 10 inches fell in the night) to the 19th, and again from 25th to 29th. There was no sunshine from

2nd to 24th, and the total duration was only eight hours. On the 29th the bar. fell to 28·380 in., the lowest since December, 1886. Mean temp. 36°·3, or 2°·1 below the average. R ·24 in. less than the average. Fog on 11 days. S on 7 days.—*Southport, Hesketh Park.* Decidedly wintry, except during the first week and the last three days. Very cloudy, sunless and hazy, S.E. winds preponderating. Mean temp. 2°·3, and sunshine 10 hours, below the average. Frost in screen on 15, and on grass or snow on 26, days. S on five days, 5·1 inches deep on 12th. Hoar frost on 13 days. Ice on lake on 21 days, the greatest thickness being 3·2 inches on 18th.—*Chatburn, Middlewood.* R 1·07 in. below the average of 10 years.—*Broughton-in-Furness.* Wet for the first week, then a few fine days, followed by a heavy fall of S, lying for about a week, with very sharp frosts. Then again a few fine days, followed by more or less wild weather till the close. Great fluctuations of temp. and exceedingly low bar. in the last week.—*Seathwaite Vicarage.* Generally mild, with two short spells of sharp frost.

IX. *Hebden Bridge, Falling Royd.* December opened mild, but cold set in about the 6th, and up to 15th sharp wintry weather was experienced. Mean temp. 5° below the average of 12 years.—*Goldsborough Hall.* Generally very dull and gloomy, with R or S on 17 days and frost on 24 days. From the 9th to the 18th inclusive the max. shade temp. was 32°.—*Middlesborough, Ormesby.* Warm at first, cold afterwards; mean temp. 33°·9. No fog. R above the average. On 13th S fell, yielding ·73 in.

X. *Brampton, Denton House.* A dry month; R an inch below the average.

XI. *Llanfrechfa Grange.* Less R than usual and mild, except between the 11th and 16th. A good deal of haze and fog in the latter part.—*Dowlais, Gwernllwyn.* Stormy and cold, the max. temp. being below freezing point on 14 days. R 1·84 in. below the average of 13 years. Mean temp. 29°·2. Frost on 28 days.—*Llandefaelog-fach.* On the whole cold and dark, with much fog and a great absence of sunshine.—*Douglas, Woodville.* The long spell of very mild weather broke up on 8th, and there were cold E. winds for the rest of the month, with S on two days, H on one, and slight frost on three. The wind, though often strong, reached the force of a gale only on 15th and 28th.

XII. *Maxwelton House.* Frost from 9th to the end; very severe from 13th to 15th. Partial thaw from 18th to 21st and on 29th and 30th. Ice three inches thick on 19th. Curling general from 11th to 29th.—*Lilliesleaf, Riddell.* A typical December; not very severe,

and with very little wind. S covered the ground for three weeks, and the temp. kept mainly round the snowing point, but fell to 6° on 13th, 9° on 14th and 12° on 27th. R exactly the average.

XV. *Craigend Castle.* Temp. very changeable and much R and S, the aggregate depth of S being 15 inches.—*Ballachulish, Ardsheal.* R 2·75 in. below the average.—*Islay, Eallabus.* Exceptionally wet and stormy.

XVI. *Coupar Angus.* R 1·42 in. above the average. Mean temp. 30°·9, or 3°·3 below the average.

XIX. *Watten, H.R.S.* Storms of wind and S, and at the close storms of R. Severe frost at times, but of short duration.

XX. *Dunmanway, Coolkelure.* Very wet; R 16·36 in., believed to be the heaviest fall recorded here in any month. There were nine days with more than 1·00 in. With the exception of two or three white frosts, it was singularly mild.—*Cork, The Palace.* R 14·75 in., being the greatest recorded for December, while the fall on 13th (2·70 in.) is the greatest daily fall also.—*Cork, Wellesley Terrace.* The extraordinary R, if not unprecedented, was probably the greatest in the century, the total being nearly three-and-a-half times the average. The next largest fall since 1851 was 10·21 in. in December, 1872.—*Waterville, Iveragh Lodge.* The wettest month recorded here; R 12·74 in. The fall of 2·65 in. on 16th is also unprecedented.—*Kenmare, Derreen.* A record month; R 16·95 in.—*Waterford, Cove Lodge.* The wettest month ever recorded here.—*Miltown Malbay.* Very wet; the last week was very inclement, with S, H and R storms.

XXI. *New Ross, Longraigue.* R 6·97 in., which has been exceeded in only six months since 1868.—*Ballindoney.* The wettest month since August, 1897. R fell on 26 days. S fell, yielding ·40 in. on 27th; and 1·48 in. of R fell on 28th, which was the most inclement day of the year.—*Kilkenny, Sion Villa.* Mostly dark, gloomy and wet. Sharp frosts on 2nd, 7th and 13th, and from 24th to the end of the month. S on 28th and 30th, followed by R. Half gales on 28th and 30th. Thick fog on 15th.—*Rathmines, Leinster Road.* Very dull, wet and changeable, with about normal temp. Several sharp frosts, but never lasting more than 24 hours. Gales less frequent than usual.

XXII. *Markree Observatory.* On the whole very wet. R 2·02 in. above the average. Duration of sunshine only 23 hours.

XXIII. *Belfast, Springfield.* Open, with more than the average R and scarcely any frost till the 26th, but very severe on 27th. From 28th to 30th, R and sleet and very stormy.

OBSERVERS' NOTES ON THE YEAR 1899.

ENGLAND.

DIVISION I.—MIDDLESEX.

TWICKENHAM, HAMPTON ROAD.—The driest months were March, May, June, July and August, during which 3·93 in. of R fell on 34 days out of 154. November also was dry with heavy falls on 3rd and 5th. The longest period without R was 24 days from May 25th to June 17th. Total R 1·40 in. below the average of seven years.

KENSINGTON, EDITH ROAD.—A very warm and dry year, and memorable for the glorious summer. Mean temp. 2°·2 above the average and the highest in 16 years, excepting 1898. The seventh successive warm year following eight cold ones. Though by no means the driest year recorded, R fell on fewer days than in any other year, and the number of absolute and partial droughts was unequalled since 1887. Absolute drought for 20 days ending March 7th, 24 days ending June 17th, 21 days ending August 27th, and 19 days ending November 30th. Partial drought for 42 days ending March 29th, with ·34 in. of R, and 39 days ending August 30th, with ·33 in. of R.

WESTBOURNE GROVE.—A dry year, the total R for the first five months being 8·80 in. There was absolute drought for 20 days ending March 7th, 21 days ending August 27th, and 20 days ending November 11th. More than 1·00 in. of R fell on four occasions, three of them between October 27th and November 5th.

MUSWELL HILL.—R ·47 in., and rainy days 44, less than the average of 27 years. There were six falls of more than an inch in 24 hours, and the aggregate of these, 7·62 in., was more than a quarter of the year's total. There was absolute drought for 16 days ending March 3rd, 24 days ending June 17th, 22 days ending August 28th, and 19 days ending November 30th. Partial drought for 42 days, with ·42 in. of R, ending March 29th, and 38 days, with

·35 in. of R, ending August 30th. Six months, January, February, April, June, September and November, had an excess of R, while the remaining six months had a deficiency.

FINCHLEY, ETCHINGHAM PARK.—The total R does not show a great deficiency, despite the drought in the summer months; only ·60 in. less than the average of 13 years. Six months had an excess of R and six months a deficiency, and it is remarkable that every month shows a departure from the average of at least two-fifths of an inch. The number of rainy days was small, being 30 less than the average. There were five falls in 24 hours exceeding an inch. There was absolute drought for 20 days ending March 7th, 24 days ending June 17th, 21 days ending August 27th, and 19 days ending November 30th. Partial drought, for 42 days, with R ·41 in., ending March 29th, and 37 days, with R ·27 in., ending August 28th.

DIVISION II.—SOUTH-EASTERN COUNTIES.

HASLEMERE, LOWER STREET.—The fourth year with very little S; about one inch on one day in January, a little on three days in March, and on one day in April, five or six inches on four days in December. R 1·56 in. below the average of 27 years.

HASLEMERE, HAZELHURST.—The R of January, February, and from September to December, was 26·06 in., leaving only 9·91 in. for the other six months. The pond dried up at the end of August, and was suddenly filled by a flood on September 7th, when 1·50 in. fell in one hour. A mild autumn. The mean temp. of December was 10° below that of the corresponding month of 1898.

HASLEMERE, GRAYSWOOD HILL.—A trying year for vegetation, the period of greatest dryness coinciding with that of greatest heat.

CHIDDINGFOLD.—In the three months June to August only 2·98 in. of R was recorded on 20 days. Absolute drought prevailed for 25 days ending June 18th and for 21 days ending August 27th. The mean temp. for the three months was 63°·7, and the max. reached or exceeded 80° on 29 days.

CHIDDINGFOLD, BEACONSCROFT.—The drought of July and August was accompanied by great heat, which caked the heavy clay soil and damaged shrubs and the prospect of root crops. The heavy R at the end of October and the beginning of November refilled the ponds, but was insufficient to fill the ditches, which remained dry to the end of the year.

HAMBLEDON, MATTERYES.—R ·42 in. below the average of 12 years.

WITLEY, FERNSIDE.—The R of 1899 was rather remarkable. S fell only on two days in March and about an inch-and-a-half in December. March and August were dry months, in fact E. wind prevailed from March to June, making a cold, late spring. R fell on 142 days, but the total is not small, considering the periods of drought in February, March, June, July, August (especially) and November. The high winds in July and August greatly accentuated the drought. There were a few heavy TSS in July and August. The largest R was in November (5·53 in.), all falling before the 15th, while continuous R fell from 3 p.m. on 3rd to 8.30 a.m. on 6th. Severe frosts and fogs in the middle of December.

CRANLEIGH COMMON, HOMEFIELD COTTAGE.—Though R fell on only 144 days, the total is 4·66 in. above that of 1898, when 148 days were wet. Dry periods occurred from May 25th to June 17th, July 27th to August 26th, and November 11th to 30th, during which not above ·01 in. was recorded on any day. January was remarkably mild, with a mean temp. of 42°; August was the finest and warmest month, with a mean temp. of 65°·3; and December the coldest, with mean temp. 34°·8 and min. 11° on 14th.

FARNHAM, THE BOURNE VICARAGE.—Drought occurred in February from 15th to 28th, relieved only by ·03 in. of R on 19th; great drought from May 25th to June 18th and from July 27th to August 28th, relieved only by ·12 in. on August 5th and 6th, and from November 12th to December 1st only ·02 in. of R fell. Per contra, during the first five days of November 3·02 in. fell.

DORKING, WOODCOTE.—The principal features were, the mildness of January and February; the cold snap in the third week of March, when the temp. fell to about 10° on four successive nights; the heat and dryness of July and August; the R of the first week of November, when over five inches fell, and the persistent fog in December.

REIGATE, DOODS.—Droughts were the characteristic feature of 1899. Although the total fall is more than that of 1898 and other years, this is due to heavy falls in short periods, notably at the end of August, in September and October, and at the beginning of November. Absolute droughts were unusually frequent, and partial droughts many. High temp. prevailed.

DORKING, HIGH ASHURST.—Owing to the very scanty R during

the most important months for a garden, *i.e.*, June, July and August, all vegetable crops were nearly dried up, and did not make any headway till October, when it was too late for profitable growth.

BETCHWORTH, THE HOLMES.—There were 24 days without R from May 25th to June 17th, and 19 days from August 8th to 26th.

CHERTSEY, QUEENWOOD.—The total R was quite an average, but June, July and August were exceptionally dry and hot, and the drought was severely felt in this sandy district.

WALLINGTON.—R 3·29 in. below the average of 10 years. Mean temp. 50°·7, or 1°·7 above the average. Duration of sunshine 1872·5 hours, being 321·1 hours above the average and 39 per cent. of the possible amount.

DYMCHURCH RECTORY.—Remarkable for wet and dry periods. R two inches less than the average of six years.

TENTERDEN.—A dry year, the R being four inches less than the average of 36 years, though equal to that of the past five. January and the first half of February were warm, the next six weeks were cold and dry. April was the wettest since 1879. May was cold. Dry weather began and ended a month earlier than in 1898, and several heavy TSS prevented the drought being so marked as in that year, though pastures were nearly as bare and harvest weather equally good. Sunshine was abundant throughout the summer, and July and August were hot, the temp. rising above 80° on 12 days. Two wet spells occurred in autumn, September 27th to October 5th and November 2nd to 9th, each with more than three inches of R. October was warm, with 14 days with temp. above 60°, and the middle of the month was very sunny, but the nights were cold and foggy. The last three weeks of November were remarkably calm and dry. The middle of December was very cold, the coldest spell since 1895. Wells were nearly as low at Christmas as a year before. Sunshine 2018 hours.

FOLKESTONE, RADNOR PARK.—The third successive dry year, the R being 5·04 in. below the average. The deficiency occurred in the latter part of the year, and serious drought prevailed in the country districts in the autumn.

TUNBRIDGE, PRIMROSE HILL.—January and February were mild and damp, March was the driest month of the year. The only S of the winter fell on March 20th and 21st. The summer was hot and droughty. December was the coldest month, with a short but rather

sharp spell of cold during the middle. R for the year just about the average.

MAIDSTONE, BEARSTED.—Absolute drought for 22 days from May 27th and 15 days from November 16th.

SHELDWICH.—Wells were very low all the year. In a well 170 feet deep there was, five or six years ago, 12 feet of water, while at the end of this year there was only 2 feet 6 inches.

BIRCHINGTON, THOR.—The year commenced very mild, followed by the driest and hottest summer on record in Thanet.

ST. PETER'S.—Drought was not so severely felt here as in other places. The R in April and May was above the average, and although none fell in the first 17 days of June, 1·55 in. fell in the last fortnight, and again in July and August R fell sufficiently to keep things going. R 1·33 in. above the average of seven years.

MARGATE, APSLEY HOUSE.—R 3·50 in. above that of last year, but nearly an inch below the average. May 14th was the only day on which more than an inch fell. The longest period without R was from May 28th to June 17th. The temp. in all but the second quarter was above the average.

CHISLEHURST, SOUTHLAUND.—The heaviest R for 20 years in January, April and November, and the lightest for 16 years in December.

HOO ST. MARY.—Although there was quite an average R and nearly five inches more than in 1898, drought was severely felt during the summer. There was an absence of TSS during the summer, and no S to speak of in the winter.

ARUNDEL, THE WOODLEIGHS.—During the four months May to August R fell on only 18 days, while on September 29th 2·03 in. fell.

CHICHESTER, OAKLANDS.—No R to do any good fell from the end of April to the end of September, except in a TS on July 23rd, and the surface of the ground was never before so burnt up; yet ponds and ditches did not dry up as in 1898, because this summer was preceded by a wet winter.

CHICHESTER, WATERGATE.—A decidedly dry year, nearly as dry as 1898. Very little inconvenience was caused by the small quantity of R, owing to there being a heavy fall every four or five weeks through the summer with enough each time to replenish tanks and ponds.

MIDHURST, BORDEN WOOD.—Of the total R 15·46 in., or more than half, fell on 18 days. There were 42 days with ·25 in. or more.

Absolute drought prevailed from February 16th to March 7th, May 25th to June 17th, and August 7th to 26th. Partial drought from July 24th to August 28th, 36 days with ·24 in. of R.

IFORD, SWANBOROUGH.—Very healthy weather, and favourable for farming, excepting the want of R in July. Springs were not so low as in 1898, though very weak.

FALMER.—A very pleasant and enjoyable year. The R is about eight inches short of the average of 40 years, but on the whole it was favourable for all cereal crops.

LEWES, SAXONBURY.—R 3·45 in., and rainy days 20, below the average of eight years.

HASTINGS, GUESTLING RECTORY.—Very little S fell in the early part of the year, and only the slightest sprinkle in the latter part. The R in May, June, July and August was only 4·24 in., and absolute drought prevailed from May 25th to June 17th, August 6th to 27th, and December 8th to 23rd. Partial drought from February 16th to March 25th, from May 25th to June 27th, and from July 24th to August 27th.

CLAYTON RECTORY.—The rainy months were January, February, April, September and November, while March, July and August were dry.

MARESFIELD, FOREST LODGE.—The year 1899 was distinguished, as was the previous one, by a notable deficiency in the R, which was 4·55 in. in defect of the average of 40 years. The months in defect were March 1·06 in., May ·35 in., June ·48 in., July 1·55 in., August 1·58 in., October 2·12 in. and December 1·06 in.; while those in excess were January ·17 in., February 1·03 in., September ·15 in. and November 1·25 in. The drought was very serious during the summer and autumn, many wells running dry, and water being sold in the neighbourhood for sixpence a bucket! Since the year 1895 in no case has the total amount of R equalled the average of the 40 years preceding and including it. Upon careful investigation of my record extending over 44 years, I fail to trace anything approaching to a cycle of weather.

LINDFIELD, WOOD KNOLL.—R 1·60 in. below the average of six years.

CROWBOROUGH.—In the first quarter 8·53 in. of R fell, in the second 7·05 in., in the third 6·33 in., and in the last 10·05 in.

TICEHURST, WHILIGH.—A very dry summer, no R falling from May 25th to June 17th inclusive and only ·19 in. from July 24th to

August 26th inclusive. The grass was more burnt up in August and September than can be remembered previously, and there was great scarcity of water.

BONCHURCH, THE LILIES.—On the whole warm and dry. January and February were very mild; the summer was warm and dry with abundant sunshine and few TSS. The autumn was very warm, with no frosts before Christmas, and there were few gales.

TOTLAND BAY, WILMINGTON.—R 5·36 in., or 20 per cent., less than the average. March, July, August and October were the dry months, and there was drought in November with no R for three weeks.

RYDE, NEW LODGE.—Absolute drought prevailed from May 25th to June 17th and from August 9th to 26th inclusive.

WOOTTON, FERNHILL.—One of the driest years recorded, with a long spell of drought in the middle. The destruction of rhododendrons was phenomenal, many dying from drought.

OSBORNE, NEWBARN COTTAGE.—The summer was very dry, with periods of complete drought from May 25th to June 17th and from August 5th to 26th, whilst only ·03 in. of R fell from July 24th to August 27th. The total R from May 1st to August 31st was only 3·55 in., or about 45 per cent. of the average. The total for the year is just one-seventh less than the average of 42 years.

BOURNEMOUTH, KEMPSEY.—The features of the year were the sharp frost in March, the persistently hot dry summer, a severe TS in September, the exceptional amount of bright sunshine in October, the abnormally mild weather and heavy R in November, three absolute and two partial droughts and the unusually low pressure on December 29th. Frost in screen on 34 nights and on grass on 85 nights. R 3·02 in., or 10 per cent., less than the average.

CHRISTCHURCH, MUDEFORD.—Total drought prevailed for 20 days from February 16th, 16 days from March 9th, 18 days from April 26th, and 24 days from May 25th. Partial drought for 37 days from February 16th, with ·17 in. of R, and for 58 days from June 30th, with ·28 in. of R.

CHRISTCHURCH, WINKTON LODGE.—The year was remarkable for long droughts and great fluctuations of temp. The R was the least in eight years, and the summer was hotter and drier than for some time. Though the first two months were wetter than the average, the dryness of March and April prevented the growth of grass, so that the crop was less than was expected.

EMSWORTH, REDLANDS.—The summer was distinctly hot and dry from the beginning of June to the end of September, being probably the most remarkable in these respects within memory. R 1·86 in. below the average of 16 years. The longest rainless period was 24 days ending June 18th.

SOUTHAMPTON, NETLEY.—The largest amount of R fell in November, in which month three days yielded 4·33 in. Only ·61 in. fell in August and ·85 in. in July, the latter month having the fewest rainy days.

WICKHAM, THE CROFT.—R nearly two inches in excess of 1898, but still below the average. Drought for 17 days from February 19th, 24 days from May 25th, 19 days from August 8th, and 20 days from November 11th.

LYNDHURST, FRITHAM HOUSE.—Water was very scarce in the district.

BISHOPS WALTHAM, HILL PLACE.—R 1·61 in. below the average of 10 years. In the first nine days of November 5·61 in. fell.

ALRESFORD, HINTON AMPNER.—Absolute drought from May 25th to June 18th, and partial drought from July 24th to August 27th. Deep springs reached the lowest level on October 27th, and began to rise on November 3rd, eight days after the heavy R of October 27th.

ALTON, ASHDELL.—In 15 days ending November 9th 8·25 in. of R fell.

WINCHFIELD, SHELDONS.—A dry year. Bad for all crops except wheat, which was exceptionally good. Springs were very low and most ponds dry, and there was a great scarcity of water in summer and autumn.

HARTLEY WINTNEY.—An "annus mirabilis" in point of weather. The heat and drought from January 23rd to September 15th were the greatest ever recorded here, only 10·14 in. of R falling in a period of 235 days, an equivalent of only ·043 in. daily, or taking a shorter period, June, July and August, in 92 days the average daily fall was only ·025 in.

HECKFIELD, HIGHFIELD PARK.—The drought of June, July and August was very severe, the soil being mainly sand and gravel. Much of the grass on the lawn was entirely killed, and that in the park grew but very slightly after the summer.

SUNNINGHILL, LYNWOOD.—Out of a total R somewhat below the average, half fell in the last four months. November was the wettest month, and the whole fall occurred in the first 11 days. The

greatest fall in 24 hours was on October 1st, but there were two falls exceeding an inch in November.

SHINFIELD, CLARES GREEN.—R ·25 in. above, and rainy days 12 below, the average of three years.

BRACKNELL, WARFIELD.—Cold and wet in the late spring. An unusually long dry spell in the latter part of November and nearly all through December.

WINDSOR, ROYAL GARDENS.—Like its predecessor, an unusually fine year, with more than average sunshine. A very hot and dry summer, but with about five inches more R than in 1898. Total R 3·13 in. below the average.

READING, EAST THORPE.—R 1·15 in., and rainy days 19, below the average of 10 years.

DIVISION III.—SOUTH MIDLAND COUNTIES.

ST. ALBANS, THE GRANGE.—A warm and rather bright year, with average R. Mean temp. 1°·5 higher than the average of 12 years; relative humidity 2 per cent. less, and cloud 6 per cent. less. The wettest month, November, had nearly six times as much R as the driest, March.

BUNTINGFORD, HAMELS PARK.—January and February were very mild and open; March, April and May very cold with biting wind. June, July and August were hot, bright and dry; and September, October, November and December were open and mild, with a full average R.

HITCHIN, THE FIRS.—The temp. of July and August was remarkably similar:—

	Average Max.		Average Min.		Mean.
July.....	74°·3	...	55°·2	...	64°·7
August	75·9	...	53·6	...	64·8

HITCHIN, HIGH DOWN.—R 2·24 in. less than the average. The R of the last four years shows an average deficiency of 2·75 in., which accounts for the shortness of the water supply on this chalk watershed. Many surface supplies (ponds and a moat at Pirton Church) were dry for the first time in 50 years.

HEDSOR.—Mild, stormy and wet until the middle of February, then dry and cooler. Intense cold and S showers from March 20th to 25th. Sharp night frosts in May. Intense heat and continued dry weather from the end of May until early in September. The

autumn was characterized by heavy R in the early part of November, and prevalence of calm, still weather with a tendency to fog. In the year there was a deficiency of 3·00 in. of R. Absolute drought from February 16th to March 3rd, May 25th to June 17th, July 24th to August 14th, and November 10th to 30th. Partial drought from February 16th for 33 days, with ·29 in. of R.

CHALFONT ST. GILES, THE STONE.—R ·82 in. below the average of seven years. The drought in summer was greater than the record of R seems to show. Wells fell earlier than in 1898, and were lower than for 17 years.

WINSLOW, ADDINGTON.—Another year of small R, which fell on fewer days than in any year since 1871, and pastures suffered much from drought. There was a good deal of hot weather at times, the temp. being 80°, or above, on 27 days and reaching 90° on August 25th.

OLNEY, FILGRAVE RECTORY.—R 5·01 in. below the average of 20 years.

HENLEY, HENLEY PARK.—A year of serious drought. Water had to be hauled for cattle for the last five months.

CULHAM VICARAGE.—Wet and mild till the middle of February; and the spring dry, cold and backward, the trees being bare till the middle of May. Hot, dry weather set in in the middle of June, and though the spring was backward there was a very early harvest, all being nearly finished by the middle of August. A mild and mostly dry autumn. R more than five inches below the average. At the end of the year R was badly needed to replenish the water supply.

OXFORD, ST. GILES'.—Absolute drought prevailed from February 16th to March 3rd, May 25th to June 17th, and November 11th to 30th; partial drought for 47 days, with ·30 in. of R, from February 16th. Frost occurred on 55 days. Very high average temp. in July and August.

STANTON ST. JOHN'S, WOODPERRY.—The springs were still so low at the end of the year that water had to be carted every day for stock in the yards.

BANBURY, BODICOTE.—R 4·16 in. below the average of 52 years.

GRIMSBURY.—A very good harvest, but a bad fruit crop. The river was comparatively empty all the year, and was still very low at the end.

DAVENTRY, FAWSLEY.—The driest year except three (1884, 1887 and 1893) since observations commenced in 1880.

SYWELL HALL.—Although the R was fairly evenly distributed through the year, there was, owing to the high temp. in the summer, a scarcity of water in the autumn.

SCALDWELL.—R 1·70 in. above the average of eight years. Owing to the drought, the turnip crop was the worst remembered, and the R of September did not improve it.

MAXEY VICARAGE.—R ·91 in. below the average. The longest wet periods were 12 days from January 7th to 18th and from April 6th to 17th. More than an inch fell on September 7th and on October 1st. Absolute drought prevailed for 22 days from May 27th.

BUCKDEN.—The summer was again very dry; the R in June, July and August, amounting to 4·00 in., compared with 3·34 in. in 1896 and 4·27 in. in 1898. The mean temp. of July and August was the same, 64°·9, being about 3° and 4° respectively above the average. From May 30th to June 17th there was no R, and from February 16th to March 22nd only ·16 in. Noteworthy temp. readings were 63° on February 10th and 88° on September 5th.

CAMBRIDGE, BENET PLACE.—There were two long droughts in the first part of the year, 20 days in February and March, and 22 days in May and June, and three almost complete droughts in July and August, October, and November. Great heat occurred from July 9th to 20th, the temp. rising above 90°, and also on August 25th. On the night of March 23rd the temp. fell to 14°, and there were rather severe frosts in December.

COTTENHAM, BERNARD HOUSE.—Total R 1·80 in. less than the average of seven years.

DIVISION IV.—EASTERN COUNTIES.

UPMINSTER HALL.—There was absence of S during the winter. August and part of September were very hot. R fell on only 17 days in June, July and August. The first week in November was very wet. There were no early frosts, and dahlias were in flower till the end of November. Some frost occurred in December, but not severe, and there was much fog; R fell on three days less than in 1898, yet the total was 5·12 in. more.

BILLERICAY, BURGHSTEAD LODGE.—R 1·60 in. less than the average of 12 years. Very few TSS. All summer till the fourth week in August dry E. winds prevailed. Absolute drought prevailed for 24 days ending June 17th, partial drought for 37 days

ending March 24th, and for 35 days ending August 27th. August was the driest month, R only ·52 in., or about two inches less than the average. November had the largest fall, 3·40 in., or 1·20 in. more than the average; 3·30 in. falling in seven days from 3rd to 10th. January was very wet, R falling on 14 days in succession. April had 21 wet days. Generally, the weather of 1899 consisted of wet and dry spells.

HAVERING GRANGE.—Ordinary wells dry in 1898 did not in any way recover in 1899, but ponds were fairly full.

SHENFIELD RECTORY.—Nearly one-third of the year's R fell on the 12 wettest days. S fell on only three days, and T was heard on only four.

GREAT LEIGHS.—Unusual heat occurred in July and August, ripening the grain crops unduly fast. Springs were very low, and surface wells dry.

COLCHESTER, LEXDEN.—January, February and November were mild; March, April, May, September and October cold; July and August hot and dry. A fair harvest. Absolute drought from February 19th to March 7th, May 25th to June 17th, and July 27th to August 14th. Partial drought from February 16th, when ·24 in. fell in 37 days, and from July 24th, when ·38 in. fell in 40 days.

BOCKING, FENNES.—The seventh year in succession with R below the average. Absolute drought from February 16th to March 7th, May 25th to June 17th, and November 12th to 30th. Partial drought for 37 days, with ·29 in. of R, from February 16th.

IPSWICH, BISHOP'S HILL.—A fine, enjoyable year, with a general absence of TSS. Some high wind at times. April, September and November had R above the average, that of the remaining months being below, while June, July and August were very dry. Total R 4·47 in. less than the average. The fifth year in succession with a deficiency, which in the aggregate is 17·38 in., giving an average of 3·48 in. per year.

IPSWICH, CLARE LODGE.—R 2·61 in. below the average.

HAWKEDON RECTORY.—Remarkably fine weather during June, July, and August, and frequent hot periods. Of the 92 days 72 were fine, but a very wet period occurred at the end of June and beginning of July, following absolute drought from May 25th to June 17th. There was heavy R also from November 2nd to 7th, when 2·76 in. fell in six days, but such was the dryness of the earth, that drains and ditches remained quite dry.

WALSHAM-LE-WILLOWS.—Though the summer was very dry the drought was not continuous, and was therefore less felt. The springs began to fail in the autumn.

CORTON, THE CLYFFE.—Fifteen-and-a-half inches of S fell during the year.

BURGH HALL.—In spite of dry periods, the R was so good when it did occur that the effects of the drought were reduced to a minimum.

YARMOUTH, MARKET PLACE.—R 4·70 in. below the average, and the smallest number of rainy days since observations began. The past five years have all had less than the average R.

NORWICH, ESSEX STREET.—The first half of February was rainy, followed by drought to March 17th, it was then rainy again till the middle of April. Frost in the first week of May destroyed fruit blossom. Drought prevailed from May 24th to June 18th, and July 2nd to 22nd. August was generally dry, and September rainy after the 15th. October was dry from 4th to 26th.

AYLSHAM, WOODGATE.—The chief feature was the drought of May and June, when there were 21 consecutive days without R. The springs in this district were from three to ten feet below the normal.

DIVISION V.—SOUTH WESTERN COUNTIES.

ALDERBURY.—R quite three inches below the average. March and July were the driest months.

MAIDEN BRADLEY.—R 1·45 in., and rainy days 32, below the average of 12 years; the least number of rainy days previously was 165 in 1892.

BRADFORD, THE CHANTRY.—Remarkable for few rainy days and the long stretches of dry weather, especially in the summer, though the frequent moderate R in April kept vegetation from being much burnt. The springs were at their lowest in October, being lower than they had been in eight years. No R fell from May 24th to June 17th, and only on one day from October 4th to 25th.

BISHOP'S CANNINGS.—Springs and brooks were still very low at the end of the year.

CALSTONE RECTORY.—The R was very evenly distributed, the fall of the first four months and the last four being much the same.

YATESBURY.—The wonderfully warm and dry summer months

were followed by a very cold December. The excessive R of January, February and April, together with a rather rainy autumn, almost exactly compensated for the extremely dry summer and a very dry March.

PORTISHAM.—R 1·06 in. below the average of 10 years. There were 28 rainy days in succession ending January 23rd, while from August 8th to 26th there were 19 days without R or dew.

WINTERBOURNE STEEPLETON.—One inch of R or more fell on seven days during the year. The longest drought was from May 28th to June 17th inclusive. Between October 26th and November 10th inclusive, 7·51 in. of R fell.

BEAMINSTER, TOWER VIEW.—There was total drought for 25 days from May 25th, and from January 1st to 24th there were 24 wet days. An inch of R, or more, fell on six days. S fell sufficiently to settle on two days only.

IVYBRIDGE, LANGHAM HILL.—The R was about 2·00 in. below the average, and the rainy days were 29 below. January, February and April were wet, July and August dry, and though the June R was within about ·50 in. of the average, the fall for the three summer months was not much more than half the usual amount. No R fell from June 26th to July 17th inclusive, and only ·30 in. from July 24th to August 25th. The August drought was peculiarly trying, being accompanied by almost constant E. wind.

PLYMPTON, HEMERDON.—The chief R was in the first three months, when 13·91 in. fell. The fall was small in March, April, May, June and July, with the exception of heavy falls on April 20th and July 15th. From May 27th to June 18th and from July 15th to August 8th no R fell. Springs became very low, causing much inconvenience. R 2·51 in. less than the average of 10 years.

TORQUAY, WATCOMBE PARK.—R 3·76 in. above the average of 14 years. No S fell except on March 21st and a sprinkling on December 8th.

KINGSKERSWELL, SOUTH HILL.—R about the average. Springs were still very low at the end of the year, only a few surface ones having broken.

ASHBURTON, HOLNE VICARAGE.—R 6·74 in., or 12 per cent., less than the average of 10 years; rainy days 16 less than the average.

TAVISTOCK, WHITCHURCH.—Rather warm and dry. The longest consecutive wet period was from January 1st to 23rd, with 9·31 in. of R. Absolute drought prevailed from February 19th to March 6th,

May 28th to June 16th, and August 9th to 25th; partial drought from July 23rd for 34 days, with ·21 in. of R. Falls of 1·00 in. or more occurred on nine days. January, February and April were wet; March and from June to October dry. January, February, June, July, August, October and November were warm; April, May and December cold. S fell on 18 days, covering the ground on eight. TSS occurred on 18 days. Fog on 56 days. Springs and wells were very low from August to October 27th.

CHUDLEIGH, IDEFORD.—R 4·16 in. above the average of 13 years. The totals for January and February are the highest recorded for those months.

EXMOUTH, BETWORTH.—The first two, and the last, months were very wet. There was no severe drought, the longest spell of deficient fall being from February 16th to April 4th, and the longest absolute deficiency May 25th to June 18th; but all through the growing period of the year there was insufficiency of R for crops.

ROUSDON.—January was the wettest, and March the driest, month of the year. May, June and July were very dry, and no R fell in the 23 days ending June 17th, whilst from 1st to 23rd of January R was measured on every day except one. Falls of one inch or more occurred on five days. The R of the first four months was 4·02 in. above the average, but the summer was so dry that by the end of August the total was ·37 in. below the average, and the total for the year is 2·63 in. below the average of 16 years.

EXETER, HEAVITREE.—January and February were wet and stormy; June, July and August were lovely months.

HEANTON SATCHVILLE.—R 1·56 in. above the average of 15 years.

WOOLACOMBE.—The R was ·25 in. less than the average. The summer and autumn were marked by the usual lowness of the springs, which continued to diminish until the end of October, and the yield at the end of the year was below the average. The heaviest R was in January and the lightest in March. The longest period without R was 21 days ending June 16th.

LYNTON, ROCK HOUSE.—There was much R and little sunshine in January; February presented a succession of S.W. gales; and March was cold, with S on 21st. July, August and the first half of September were hot, while the second half of September and the beginning of October were cold; warmth followed to the end of November, but December was the coldest month of the year, with much frost and fog.

PENZANCE, PENLEE.—R 3·06 in. below the average of five years.

TRURO, KILLIOW.—R 1·68 in. below the average of five years.

LAUNCESTON, ALTARNON.—The spring was cold and wet till May 27th, followed by hot weather till September 15th, after which it was cool and showery till October 5th. The autumn was dry and warm. Sharp frosts occurred from December 10th to 20th.

YEOVIL, WEST COKER.—The summer and autumn were very hot and dry, with more sunshine than usual, and in many places there was great deficiency of water. The R of the year was, however, about the average.

WELLINGTON, THE AVENUE.—The year began with exceedingly heavy R, but the summer was very dry and warm, and the autumn rather dry. December had slightly more than the average fall. The total for the year is about an inch less than usual.

NORTH CADBURY RECTORY.—The not inconsiderable R of the last four months was sucked in as fast as it fell, and at the end of the year the pond had hardly risen at all from its lowest ebb on October 25th. Wells were very low and some still empty on December 31st. Total R an inch-and-a-half above that of 1898, but the drought was more felt, seeing that more than a quarter of the total fell in the first 46 days. Absolute drought prevailed from February 16th to March 3rd, May 25th to June 17th, and November 12th to 26th; and partial drought for 49 days, with ·42 in. of R, from February 16th.

TAUNTON, ASH PRIORS.—Excessively dry. Only on one day (December 28th) did over an inch of R fall. The figures hardly represent the intensity of drought, as from February 16th to March 21st only ·19 in. of R fell on four days; from July 2nd to 20th only ·04 in. on 11th, and from July 23rd to August 2nd none, while throughout August the small falls were ineffective. Even in September nearly two-fifths of the total fell on 29th and 30th.

COTHELSTON HOUSE.—R more than 5·00 in. below the average, making a deficiency of nearly 12·00 in. for the years 1898 and 1899. The summer and autumn combined were the driest on record. On only one day did an inch of R fall.

FROME, ORCHARDLEIGH.—January was wet and mild till the 23rd, with gales on 12th and 20th; March was dry, with fog from 14th to 16th; April was genial. The max. temp. exceeded 80° on six days in June, 11 in July and 18 in August, and the weather continued pleasant and beautiful till October 25th.

STON EASTON.—R ·04 in. below the average of 31 years.

HARPTREE COURT.—R 2·07 in. below the average of 17 years, the deficiency occurring in June, July and August. From May 25th to August 27th, a period of 95 days, only 1·63 in. of R fell. Absolute drought occurred from February 16th to March 3rd and from May 25th to June 17th.

WRINGTON, WEST HAY.—R 2·54 in. above the average of 12 years.

LONG ASHTON.—R 2·85 in. below the average of 26 years. Absolute drought from May 26th to June 17th.

DIVISION VI.—WEST MIDLAND COUNTIES.

CLIFTON, PEMBROKE ROAD.—The feature of the year was the drought of June, July and August, during which only 3·66 in. of R fell on 21 days, and of this 1·01 in. was due to a single TS. The average for the period is 9·19 in. On the other hand, January, February and April all had considerably more than the average. The heavy R from October 25th to November 11th is also noteworthy, 5·25 in. falling in 18 days. Total R only 1·23 in. below, and rainy days 26 below, the average of 43 years.

BRISTOL, FISHPONDS.—Remarkable for the great heat and drought of the summer. R was deficient in March also, but there was a large excess in January, February and April. Absolute drought occurred for 16 days from February 16th, 24 days from May 25th, and 18 days from November 13th.

WICKWAR RECTORY.—The R of the first three weeks of 1899 was equal to that of the first four months of 1898, and the fall of the first three months was four times that of the same period in 1898.

CIRENCESTER.—January and February were mild and wet, followed by a dry March and a backward spring, after the promise of a very advanced one. The summer was hot and very sunny, with drought caused by unevenly distributed R. The R in May, June and September was only excessive from three falls of an inch. Hill springs commenced to run on November 8th. R 1·50 in. above the average of 11 years.

STROUD, STANLEY PARK.—Absolute drought prevailed from May 25th to June 17th inclusive, and partial drought for 47 days from July 12th, with ·42 in. of R. The springs were very low.

GLOUCESTER, BIRDLIP HILL.—The smallest number of rainy days since the record commenced in 1883. Drought from February 16th to March 4th and from May 25th to June 18th.

TEWKESBURY, BECKFORD.—R 3·86 in. below the average. Absolute drought for 24 days from May 25th and for 20 days from November 11th. Partial drought for 49 days, with ·34 in. of R, from February 16th.

ROSS, THE GRAIG.—Very warm, except in March and December, and very dry, except in January and the first half of February.

BRYNGWYN.—R about an inch-and-a-half above the average of seven years. A dry, hot summer and a fine autumn.

LEDBURY, PUTLEY COURT.—Wells gave out earlier than ever before remembered, and began to get water in them again only at the end of the year.

CANON FROME VICARAGE.—A most productive year. No R for 21 days ending June 17th.

KINGTON, GRAVEL HILL.—Total R 7 per cent. above the average. January and February were very wet, while July and August were extremely dry. There were no excessive falls of R.

PEMBRIDGE, MARSTON.—A dry summer on the whole, and dry spells from February 18th to April 3rd and May 25th to August 26th. Very little T.

LUDLOW, ASHFORD.—The main features were the drought of 24 days from May 25th and the heat and dryness of the summer. The ground was very parched, and from the succession of hot, dry summers there was a scarcity of water in the village.

LUDLOW, ASHFORD HOUSE.—R about 2·00 in. more than the average. Long spells of wet and of fine weather were the chief characteristics. In the first 47 days nine inches of R fell, and there were only eight fine days. From February 17th to March 24th only ·36 in. fell. April and May had 38 wet days. No R fell from May 26th to June 17th. From the beginning of July to September 20th only two-and-a-half inches fell, while three inches was yielded by the next 10 days, and from October 25th to November 11th 4·25 in.; the rest of November had only ·04 in.

WOLVERHAMPTON, TETTENHALL.—The thirteenth consecutive year with less than the average R.

LICHFIELD, MAPLE HAYES.—R fairly well distributed, but the fall in the last five years has been so small that wells were short, and about 25 inches of R are required to make up the deficiency.

UPTON-ON-SEVERN, THE EADES.—Although the R was greater than in 1898, the succession of droughts was far more serious, in June, July, August and November.

GREAT MALVERN, MADRESFIELD COURT.—R ·64 in. below the average of 16 years.

WESTON PARK.—Owing to the small R in May, June and August, the water supply was a difficulty in the autumn, and the 1·55 in. on July 6th came in so short a time that it mostly ran off without seeming to help the springs.

KENILWORTH, THE SPRING.—R ·30 in. more than the average of 17 years.

RUGBY, TEMPLE OBSERVATORY.—R ·94 in. less than the average of 10 years.

COVENTRY, PRIORY ROW.—A fine year and a very lovely summer.

SPARKBROOK, GRANTHAM ROAD.—R ·83 in. above the average of nine years, in spite of seasons of extreme dryness.

DIVISION VII.—NORTH MIDLAND COUNTIES.

TINWELL, SOUTH VIEW.—The summer was exceedingly dry, and all agricultural crops suffered much.

TOLETHORPE HALL.—The drought in July and August was most disastrous, the heat being intense.

HAGNABY PRIORY.—Very few TSS and none severe. S fell on two days.

SPILSBY, BOSTON ROAD.—In only three months, January, April and May, did the R exceed the average, the greatest excess being ·70 in. in January. There were deficiencies of 2·31 in. in August, 1·89 in. in July, and 1·44 in. in November, while the remaining six months had deficiencies of less than an inch. Total R 5·37 in. below the average.

LEADENHAM RECTORY.—Very dry, with few heavy rains and little S. R about 3·00 in. less than the average. The cold weather, without being intense, lasted right into May; but June, July, August and part of September were very hot, and there was little frost in autumn till the latter part of November. S and cold weather set in a fortnight before Christmas, and lasted with occasional thaws and R to the end of the year.

HORNCASTLE, HEMINGBY.—R just about the average of seven years.

LOUTH, GOSPELGATE.—R 3·19 in. below the average.

LOUTH, WESTGATE.—R 4·48 in. below the average of 26 years.

BURTON-ON-STATHER.—R 1·45 in., and rainy days 20, less than the average of 10 years. In the 10 years October has been the wettest month, with an average of 3·16 in., and March the driest, with 1·48 in.

NOTTINGHAM, CARISBROOK HOUSE.—March, August and November were very dry.

STRELLEY HALL.—R about 1·25 in. below the average. In August only ·61 in. fell, while in no other recent year has less than an inch fallen in the month. The most sunny year recorded since 1881.

SOUTHWELL, WESTHORPE HALL.—April, May and October were abnormally wet; March and August very dry, so that there were excellent seed and harvest times.

WORKSOP, HODSOCK PRIORY.—The early months of the year were mild and rather dry, with absence of wintry weather, the only frost of consequence coming during the third week of March. The next two months were dull and showery, but the three summer months were unusually warm, bright and dry. After some stormy weather at the end of September there was a rather cold period in October, followed by a very warm November, while December was very cold, with hard frost in the third week. While there was a deficiency of R throughout the year, the only time that the drought was much felt was at the end of August, when the country was a good deal burnt up. Harvest was early, and a good crop of corn was secured in capital order.

STANTON HOUSE [BURTON].—Pastures were burnt up in June, July and August, and wells were still low at the end of the year.

CHELLASTON.—January and February were rainy, stormy and mild. The latter part of March was cold and wintry. April and May were very showery and windy, and good for vegetation. June was very dry and warm till the 18th, then very rainy. Hot and dry weather followed until the middle of September, when it became stormy and cold, with many heavy gales. October was fine and pleasant, with the exception of three very wet days. The first part of November was very stormy, followed by warm and fine weather. December was very variable, cold and mild intervals alternating.

BREADSALL PRIORY.—R about the average. Very little S. Severe frosts in December.

HAZELWOOD, CHEVIN.—R ·25 in. below the average of 14 years.

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESTER, CHRISTLETON HALL.—The winter was not severe, but piercing cold winds early in April destroyed much fruit blossom. May was generally dull and cold, and drought lasted for 24 days from the 25th to June 17th. The summer was dry and hot and good for harvest work, but the latter part of September was very stormy. The autumn was showery and very changeable. Sharp frosts occurred after December 8th.

CHELFORD, ASTLE HALL.—Unusually dry. R 4·21 in. below the average of 24 years.

NESTON, HINDERTON.—R nearly 6 per cent. less than the average of 30 years, this being the seventh year in succession showing a deficit.

WILMSLOW, PARKSYDE.—With the exception of 1887, when only 22·34 in. of R fell, this was the driest year recorded. It reduced the average (for 22 years) to less than 32 inches, for the first time since observations commenced. The R of 1898 and 1899 was conjointly 9·42 in. below the average, that of 1899 being 5·63 in. below.

AIGBURTH, KELTON.—R 2·82 in. below the average of 24 years. On no day did the fall reach an inch, and for 24 consecutive days from May 25th no R fell.

AUGHTON SPRINGS.—A warm, sunny year, with fewer storms than usual. Dahlias in bloom till December 2nd, which is quite unprecedented.

SOUTHPORT, HESKETH PARK.—On the whole dry, warm and sunny. Hot in August and unprecedentedly mild in November. Mean temp. above the average in every month except May and December. Exceptionally sunny in February, June, August and October; rather dull in April, May, July and December. R particularly deficient in July and August; underground water level lower in September than ever previously known in Southport. Calm in May and June, very stormy in September. Mean temp. of the year 1°·4 above, and duration of sunshine 90 hours above, the average. Total R 5·77 in. less than the average.

HASLINGDEN VICARAGE.—R about the average. The year was

remarkable for the finest August for many years; from 1890 onwards it has been one of the months of heaviest R; this year it had the least. The heaviest fall was in September, and rather more than one-third of the total fell in January and September.

CHATBURN, MIDDLEWOOD.—R 1·65 in. below the average of 11 years.

ARKHOLME, STORRS HALL.—The R was about the average, but so distributed as to cause inconvenience, and the springs did not recover from the 24 rainless days ending June 17th till late in autumn. A warm and wet January was followed by a dry and cold March, and by a hot June, July and August, during which three months only 6·13 in. of R fell. December was cold and disagreeable, having 18 frosty nights and four days on which 32° was not reached.

GRANGE-OVER-SANDS, BELMONT.—Less R and more heat than in 1897 and 1898. The winter of 1898-9 was decidedly mild, and the summer of 1899 was mostly very warm and rather dry.

CARTMEL, BROUGHTON HALL.—R rather under the average of 30 years. There was nothing remarkable except the small fall in August (·98 in.) and the period of 24 days without R from May 25th to June 17th.

SEATHWAITE VICARAGE.—A year of mild spring and winter, with low temp. in the latter half of June and throughout July. R about the average, but an excessive fall in January.

DIVISION IX.—YORKSHIRE.

WATH-ON-DEARNE.—R about the average. September was the wettest, and March and August were the driest months. There was an almost complete absence of severe TSS. S fell on 18 days. Frosts continued till the end of May. No R fell for 25 days from May 24th, which is the longest drought in 10 years.

STAINBOROUGH, WENTWORTH CASTLE.—R 2·80 in. less than the average of 23 years.

BARNSLEY, CHURCH STREET.—R 1·70 in., and rainy days 7, below the average of 30 years.

MELTHAM, HAREWOOD LODGE.—The fifth year in succession with R very close to the average; it was, however, unevenly distributed, January and September furnishing more than one-third of the total. The summer months (June, July and August) were drier than in any year since 1881 except 1887. This was again a warm year, but

less so than 1898. The summer was the hottest since the record began, and probably since 1868. TSS were few in number, but two were rather severe.

WAKEFIELD, WALTON.—In the last four years only 79·16 in. of R has fallen, or 22·92 in. less than the average. Absolute drought prevailed from May 26th to June 18th.

HUDDERSFIELD, DALTON.—Unusually long periods of dry weather occurred in February, March, June, October and November. December was very dreary and sunless. R for the year 6·40 in. above the average of 34 years.

WAKEFIELD, STANLEY GRANGE.—R ·33 in. above the average. Absolute drought from May 26th to June 18th.

HALIFAX, S. OWRAM.—Although the number of rainy days is less than the average, the R is 2·24 in. in excess. Absolute drought for 24 days occurred between May 25th and June 17th. September was the wettest month, with 6·26 in. of R.

HEBDEN BRIDGE, FALLING ROYD.—The year was generally dry and warm. Out of a total R of 46·68 in., 17·80 in. fell in January and September, leaving only 28·88 in. for the rest of the year. The number of rainy days being 26 less than the average of 12 years, shows in a marked degree how fine the weather was. The summer months were unusually warm, the max. temp. being 84° on August 1st and 25th.

LEEDS, OLIVER HILL, HORSFORTH.—The R for the year is more than 3·00 in. below the average. The drought for 24 days in May and June was remarkable. In June and July the temp. in the shade frequently reached 85°.

ILKLEY, EATON ROAD.—The R was not much under the average, but there was much more fine weather than usual. The summer months (June, July and August) were exceptionally fine and warm.

SLAIDBURN, WHITEHOLME.—R ·96 in. below the average of 11 years.

YORK, BURTON CROFT.—R 2·17 in. less than the average of 50 years.

COTTINGHAM GRANGE.—There was a remarkably long drought from May 25th to June 18th inclusive, and everything suffered considerably. March and February were also very dry.

BEVERLEY, E. R. ASYLUM.—R ·71 in. below the average of nine years. Absolute drought prevailed for 22 days from May 27th.

THIXENDALE.—The year was remarkable for droughts, the longest

being 23 days without a drop of R at the end of May and beginning of June. From May 25th to August 26th, 13 weeks, only 2·50 in. of R fell. All ponds dried up in the summer, and springs were very low.

BALDERSBY.—R 3·05 in. above the average of 10 years.

BEDALE, BURNESTON.—The wettest year, except 1895, since observations commenced in 1888. There were periods of drought, and the R fell in large quantities in a few days.

AYSGARTH VICARAGE.—The year was remarkable for the great deficiency of rainy days—when it rained it poured. The average of 20 years was just exceeded.

LEYBURN, BOLTON HALL.—R 2·82 in. above the average of 23 years.

INGLEBY MANOR.—The R is ·58 in. above the average of 10 years, notwithstanding the dry summer. There were five falls of more than an inch, the greatest being 2·01 in. on October 1st. The temp. was much above the average.

DIVISION X.—NORTHERN COUNTIES.

DARLINGTON, CLEVELAND PARADE.—R more evenly distributed than usual, and quite up to the average in quantity. February, June and August were the driest months.

WEARHEAD.—January was extremely wet, especially in the first half. June and August were abnormally dry, with an absence of TSS. Heavy R fell for a few days in September, the heaviest coming from the W.

SUNDERLAND, WEST HENDON HOUSE.—The R of 1899, 28·66 in., is 2·48 in. above the arithmetical average and 2·74 in. above the geometrical mean for 30 years 1860-89. May was the wettest month, with a fall of 3·74 in., and August was the driest, with ·95 in. On two days the fall exceeded an inch, May 11th, 1·20 in., and October 1st, 1·87 in. There was a period of 14 days with no R to measure, from June 4th, and there were two periods of partial drought, February 14th to March 19th, 34 days, total fall ·31 in., of which ·11 in. fell on March 8th; and July 23rd to August 26th, 35 days, total fall ·32 in. R, S or H fell on 239 days in the year, a measurable quantity being reached on 196. S fell on 26 days, and reached its max. depth of 11½ inches on March 23rd. The duration of time that R fell was below the average, the decided excess in

December being more than counterbalanced by deficiencies in the other months, with the exception of January and April. There was a very noticeable excess of W. winds during the year and a noticeable deficiency of N.E. and E. winds, which were unusually scarce in the first four months; the most striking monthly excesses being of the W. wind in September and November and of the S.E. wind in August. The N.E. wind was by far the wettest wind in proportion to the time it blew, and, as usual, the W. was the driest, only it was drier than usual, as was also the E. wind. The proportionate R that fell with each of the other five winds was about the average. The number of days on which the alternation of sea and land breezes took place was much above the average, the excess being very marked in June, August and October. In June there were 10 such days out of 22 days of observation, and in August 10 out of 20. The wind force was about the average, with a noticeable excess in September and November and deficiency in December. The cloud nearly reached the average; in the first quarter no less than four days were quite cloudless, if we do not take into account thin cirrus, while in December no fewer than five days were completely overcast. The fog was above the average, there being an excess in each month but May and September, notably in December, as might be expected from its calmness. Solar halos were unusually numerous in February, being seen on 10 days.

RYTON-ON-TYNE.—Exceptionally little R fell in March and August, and absolute drought prevailed for 23 days ending June 17th. Partial drought for 33 days, with ·20 in. of R, ending August 26th.

NEWCASTLE, CLIFTON ROAD.—R 3·42 in. below the average of 30 years. May was the wettest since observations commenced in 1869. Dry periods occurred from February 18th to March 19th, May 24th to June 17th, July 24th to August 26th, October 2nd to November 1st and November 11th to December 2nd.

PAWSTON [COLDSTREAM].—The only flood in the river was early in October, but it was not nearly so high as in October, 1898.

MILLOM, LEYFIELD.—The year was chiefly remarkable in that on no single day did one inch of R fall. Absolute drought prevailed for 23 days from May 25th. R 3·27 in. below, and rainy days 6 above, the average of 10 years. The driest year recorded, except 1895.

SEASCALE, WHINTHWAITE.—R ·66 in. below the average of 10 years.

COCKERMOUTH, BROUGHTON GRANGE.—The R was above the average, but there were more days without R than usual. On the whole a fine spring and summer and a stormy autumn.

BRAMPTON, DENTON HOUSE.—R an inch, and number of rainy days 26, less than the average of 13 years.

AMBLESIDE, SKELWITH BRIDGE.—R ·98 in. above, and rainy days 17 below, the average of 10 years.

APPLEBY, CASTLE BANK.—The heaviest R for nine years, yet roots suffered considerably from droughty weather in May and June. Although the fall was the heaviest, the number of rainy days was the least, recorded. There was good harvest weather, and moderate crops were well gathered. No great extremes of temp. occurred, the highest being 82° on August 2nd and the lowest 9° on December 15th.

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

CHEPSTOW, MOUNTON ROAD RES.—The heavy R of January swelled the total for the year, which would otherwise have been below the average. The deep-seated springs of the Water Works were remarkably low.

LLANFRECHFA GRANGE.—Very little frost occurred in January, but there was a good R. April was cold, but June, July and August were very hot, with a deficiency of R, hence all crops were short. Very few TSS. A small R in December.

ABERGAVENNY, DYNE HOUSE.—The R from March to September inclusive was below the average, and the drought in August, after a dry June and July, was severely felt. TSS were frequent during the summer and were very welcome.

LLANVIHANGEL COURT.—The year was distinguished by frequent droughts, with heavy falls of R between. The summer was extremely fine. Total R 1·41 in. above the average of 11 years.

COWBRIDGE, FONMON CASTLE.—R slightly below the average. In the first four months the R was much in excess, and in the last eight much deficient, being nearly as small as in any year recorded.

OYSTERMOUTH, NEWTON.—January and February were wet and mild, with 10·64 in. of R, which is much above the average. March was fairly dry, with frost and two heavy gales. June and July were very dry and hot, with TSS; August also was dry, the 6·31 in. of R on 29 days in these three months being exceptionally little.

November was stormy, but with many successive fine days. December was wet, with frost about the middle.

SWANSEA, ST. JAMES' GARDENS.—R 2·27 in. below the average of 10 years.

NEATH, FAIRY LAND.—R 6·42 in. below the average. Very little R fell between May 25th and the end of October, and this town suffered much from scarcity of water.

DOWLAIS, GWERNLLWYN.—The first half of the year was exceptionally wet, the R at the end of June being 12·10 in. above the average, but the dryness of the second half brought it down to 4·40 in. above the average of 13 years. There were 130 days with less than ·50 in. of R, 30 days with more than ·50 in. and less than 1·00 in., five days with more than 1·00 in. and less than 1·50 in., two days with more than 1·50 in. and less than 2·00 in., and one day with more than 2·00 in. Frost was registered in every month excepting July and August. The mean temp. for the year was 46°·1.

YSTALYFERA, WERN SCHOOLS.—The first four months together were the wettest in seven years, and the last eight by far the driest in the same period. Wells which had not failed within living memory became dry during the autumn and had not recovered at the close of the year.

LLANELLY, NEW ROAD.—The summer and autumn were very dry; many springs failed, and the town supply nearly gave out, and was only saved by an extra fall of R in October.

LLANWRDA, DOLAUCOTHY.—A dry year, with an open winter. The R frequently came in heavy falls.

ST. DAVID'S.—January was the most wet and stormy month of the year, and much land was flooded. February was somewhat finer; and March, after a short period of fine weather, was winterly. April and May were deficient in bright sunshine, but the temp. was above the average, with moderate R. From June to September was generally bright, dry, sunny and warm. October and November were more unsettled, and December was very rainy and gloomy, with many sharp frosts of short duration.

STRATA FLORIDA, HAFOD.—The summer was unusually fine and dry; good for hay and strawberries.

CRICKHOWELL, GWERNVALE.—Heavy R in January and part of February was followed by a dry spring and a long dry summer, July being the driest month for many years. There were five periods of absolute drought.

BRYNWERN HALL [NEWBRIDGE.]—Though the summer rainfall does not appear to be extremely low, the drought was the most severe experienced for many years, and the brooks had not been so low for 15 years.

LLANBADARN FYNYDD, PEN ITHON.—This was supposed to be a very dry and hot spring and summer, and there was much less grass than usual, yet the actual R was 5·19 in. more than in 1898, when there was a very good crop of grass and hay.

POOL QUAY VICARAGE.—A year of heavy falls, 1·00 in. being exceeded twice and ·25 in. or more, falling on more than a quarter of the rainy days. R 1·45 in. above, and rainy days 25 below, the average of 10 years. Partial drought from July 11th to August 28th. Mean temp. 1°·4 above the average.

ROSSET, TREVALYN HALL.—On the whole fine and rather dry. R 2·73 in., and rainy days considerably, below the average. The driest month was August, which is very unusual.

DENBIGH, GARN.—R ·42 in. above the average of 10 years.

COLWYN BAY, INGLESIDE.—Fine on the whole till September, but after the middle of that month it was very unsettled, and December was cold and wet. The mean temp. was above the average in 10 months.

DOUGLAS, WOODVILLE.—The winter was wet, mild and generally open, with a cold period from March 18th to 27th. The spring was unusually late, a wet, cold, sunless April with little improvement until May 25th, when a welcome change occurred to bright, dry, warm weather. The summer was beautiful, and lasted till mid September, which is very unusual here and has not happened since 1887. It broke up suddenly with violent gales. November was the warmest of which there is any record, with an average temp. of 50°. R about the average, but rainy days much below. There were 5 days on which over an inch fell.

ST. MARTIN'S, LES BLANCHES.—The driest year of the last six, both as regards R and rainy days. Absolute drought from May 27th to June 17th and from July 24th to August 26th; partial drought from July 22nd to August 28th, with only ·04 in. of R. The two latter are the longest on record.

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

DUMFRIES, IVY BANK.—R 5·27 in. above the average of 12 years. November was the wettest month, and August the driest and warmest.

MONIAIVE, MAXWELTON HOUSE.—R 53·19 in., being the heaviest fall since the record began in 1887.

HAWICK, LADYLAW.—R a little below the average, August being exceptionally dry.

LILLIESLEAF, RIDDELL.—An excessively cold spring caused much loss among lambs. A dry summer and wet autumn followed; altogether a warm season. The first S fell on December 10th and remained on the ground to the end of the year. R 5·02 in. above the average.

DIVISION XIII.—SOUTH EASTERN COUNTIES.

DRUMMORE.—July was the wettest month and August the driest. S fell on 9 days. Prevailing wind W.

EDINBURGH, BLACKET PLACE.—Four falls of R occurred exceeding an inch in 24 hours. During 45 years, the greatest number observed was 7 in 1877, and the next greatest 4 in 1881 and 1899. R just the average, and mean temp. 1°·3 above the average.

NETHER PARKLEY.—In 63 days, ending March 28th, only 2·73 in. of R fell, and in 72 days, ending September 25th, only 2·20 in., while in August only ·83 in. fell, much to the satisfaction of sportsmen. The turnip crop was seriously affected by drought in June and in places had to be resown more than once. Sharp frost occurred in December after the 8th. Total R 8·66 in. above the average of 50 years.

DIVISION XIV.—SOUTH WESTERN COUNTIES.

HAMILTON, ARDENCLUTHA.—A wet year with a good deal of S in March and December. August was unusually dry, and also June, but for one very wet day. Total R for the year 5·74 in. above the average of 10 years.

GLASGOW OBSERVATORY.—R five inches above the average of 31 years.

BARRHILL, DOCHROYLE.—R 2·64 in. above the average of 24 years.

COLMONELL.—R ·80 in., and rainy days 10, above the average of 23 years. There were 128 days on which ·10 in. or more of R fell. Mean temp. 1°·9 above, and number of frosty nights 24 below, the average.

MAYBOLE, SAUCHRIE.—R 3·96 in. above the average of eight years.

LOCHWINNOCH, GARTHLAND.—R above the average. On 15 days the fall exceeded 1·00 in., and on 46 days ·50 in., which is unusual. August, usually a month of average R, was the driest of the year.

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON, LEVEN SHIPYARD.—More than 1·00 in. of R fell on four days. The R for January was the greatest in any month since February, 1894.

BUCHLYVIE, THE MANSE. — Changeable, wet and unsettled. Although the three summer months were fine, and June and August had much less than the average R, the total is 7·96 in. above, and the number of rainy days 11 above, the average of 10 years.

INVERARY, NEWTOWN.—January was at first very wet, but frosty after the 23rd with skating and curling. Very hard frost occurred between the 15th and 25th of March, followed by S. The summer was late, but very fine and warm when good weather once set in.

BALLACHULISH, ARDSHEAL.—R about 1·00 in. below the average of seven years. August was unusually dry.

MULL, QUINISH.—Remarkable for the unusually cold and wet March and April, and the hot and dry August; entirely contrary to the experience of 25 years.

DIVISION XVI.—EAST MIDLAND COUNTIES.

STRATHMIGLO.—At the end of May the R was 5·45 in. above the average up to date, the fall for that month being 2·68 in. in excess. The excess fell to 1·53 in. at the end of August, and at the end of October was only ·61 in., but it increased again, till at the end of

December, it was 1·26 in. The last two days of September gave a fall of 2·44 in.

CALLANDER, THE GART.—The spring was very late, and quite cold weather lasted till the end of May, but June and August were very fine and warm.

BALQUHIDDER, BLAIRCREACH.—R 10·31 in. below the average.

BALQUHIDDER, STRONVAR.—R 4·09 in. above the average.

ARBROATH, DISHLAND HILL.—R 1·78 in. above the average of 10 years.

DIVISION XVII.—NORTH EASTERN COUNTIES.

FETTERCAIRN, THE BURN.—In spite of long periods of drought in June, July and August, and of the scanty R in October, the total is the heaviest since 1883. The chief thing to be noted is that heavy R fell frequently for two, three or more days together, the showers not being well distributed from a farmer's point of view.

ELLON, KERMUCK.—The year was marked by variations from one extreme to the other. Open and mild weather till March 17th; then a somewhat violent S storm, with sharp frost, followed by broken weather. Lack of R in May and June, and an excessive fall in July. Absolute drought in August till 25th; then a somewhat rainy period. October and November unusually fine, with very moderate R. Short spells of S and frost, broken by heavy R from S.E., in December.

WESTER ELCHIES SCHOOL.—The longest spell of dry weather was from July 18th till August 26th, with 30 dry days; and the longest wet spell was from August 27th to October 13th, with 37 wet days.

FORRES H.R.S.—The greatest R since 1882, when 31·14 in. fell.

FORRES, GRANGE HALL.—The wettest April for many years, and exceptional R on the last three days of December.

NAIRN, ACHAREIDH.—April was unusually wet, and drought prevailed in August.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

STRATHPEFFER SPA, AMBATOVORY.—Remarkably dry. Few rainy days except in September, and even in that wet month there were not excessive falls.

ALNESS, ARDROSS CASTLE.—The spring months were cold and backward, with frequent frost, till the end of May. The summer was fine and dry, but autumn was very wet with frequent TSS. December opened exceptionally mild, followed by S and frost towards the end.

KINTAIL, THE GLEBE.—With the exception of September, which was exceptionally wet, the weather of the year was normal.

SKYE, RAASAY HOUSE.—The spring months were the coldest, and the summer months the driest, for many years.

GLENELG.—The year as a whole was drier than usual, notably in January, February, May, August and December. There was a good deal of frost during the first two months and some during December, On six days more than 1·00 in. of R fell, and the R in September and November was heavier than usual.

LYNEDALE.—May, June, July and August were exceptionally dry, and the other months normal.

LOCHNESS, DRUMNADROCHIT.—R ·46 in. above, and rainy days four below, the average of 13 years. The average fall till 1889 was 29·81 in.; it then increased year by year till, including 1899, it was 34·68 in. From May to August only 6·80 in. of R fell on 53 days, whereas September alone gave 4·65 in. on 27 days, and the last four months of the year 16·36 in. on 90 days.

DIVISION XIX.—NORTHERN COUNTIES.

GOLSPIE, DUNROBIN CASTLE.—The early part of January was unusually wet, but the latter part was frosty. The spring months were wet, and sowing was considerably retarded. Drought in June and August made water scarce in many places. R above the average.

LOCH NAVER, ALTNAHARRA.—Notable for the severe spring, with S for a fortnight in April, and for the exceptional drought of the summer months.

IRELAND.

DIVISION XX.—MUNSTER.

CASTLETOWNSHEND, GLEN BARRABANE.—R 1·67 in. below the average.

BANDON, ARDNACARRIG.—An abnormally dry spring, a dry and hot summer, and an early autumn. Constant R in December.

CORK, WELLESLEY TERRACE.—There were 33 consecutive rainy days ending January 22nd; and absolute drought for 22 days ending June 16th, for 16 days ending August 24th, and for 18 days ending November 29th. Great floods occurred from February 8th to 12th, and in December.

MALLOW, SUMMER HILL.—The months from June to October were extremely dry, and wells became empty that were never known to fail before. The R of December, 10·50 in., is the greatest recorded here in any month. Five falls exceeding an inch in 24 hours occurred during the year.

DERRY CASTLE [KILLALOE].—A very favourable year, only two months, January and December, having excessive R. April also was very wet, but the summer and autumn were splendid. R not quite ·25 in. above, and rainy days nine below, the average.

CARRIGAHOLT CASTLE.—The beginning and end of the year were very wet, but there was great drought and scarcity of water through the summer. The harvest was excellent.

BROADFORD, HURDLESTOWN.—A dry year on the whole, but with a wet December. No drought, but water was much wanted at times.

DIVISION XXI.—LEINSTER.

GRAIGUE, BRANDONDALE.—R 2·06 in. above the average of 14 years.

KILKENNY, SION VILLA.—The year was ushered in with a succession of storms and gales, with heavy R. To the end of April the weather was principally dull with occasional gales, not severe frosts and some S. From the commencement of May to September 15th lovely weather prevailed. The intense heat at the end of July culminated in a TS of unusual severity on August 3rd. October was

fine, cooling about the 15th. The last two months were dark, gloomy and very wet. There were three periods of absolute drought, *viz.:* in March, June and November.

ABBEY LEIX, BLANDSFORT.—R ·48 in. below, and rainy days seven above, the average of 25 years.

STRAFFAN HOUSE.—A cold and ungenial spring, whilst May was a month of E. winds. June and October were the only good months, whilst September was the worst remembered.

KILLINEY, CLONEEVIN.—R 4·54 in. above the average of 14 years. Absolute drought prevailed for 23 days ending June 16th, and for 15 days ending November 29th. There was very little frost.

ACLARE HOUSE.—The summer months were very dry, and the latter part of the year was very wet, the whole country being soaked.

ARDEE, LISSRENNY.—R ·99 in. above the average of 10 years.

DIVISION XXII.—CONNAUGHT.

COLLOONEY, MARKREE OBSERVATORY.—R considerably above the average, but July, August and October were much drier than usual, while December was unusually wet, giving one-seventh of the total. April had more than double the average R.

BALLYSADARE BAY, GLEN LODGE.—An ideal year. R fell just when wanted, and principally at night. There was no drought and consequently a splendid harvest.

DIVISION XXIII.—ULSTER.

BELTURBET, CLOVERHILL.—March was pleasant until after 18th, when there was a very cold week, with S on 22nd. The last week was warm, and with the first few days of April, formed a very growing period. The rest of April was cold and backward. May was very backward, and hawthorn did not blossom till the end. October was fine and sunny.

BALLYCONNELL HOUSE.—R 2·00 in. below, and rainy days six above, the average of six years.

LURGAN, BELLE VUE.—May was wet, and except the last five days, colder than usual. June was exceptionally fine and warm, and July had only one cold and wet day. August was the hottest month

since 1880. October had less than the average R. The first 10 days of November were wet, the remainder wonderfully dry. December was rather wet.

BELFAST, SPRINGFIELD.—In the 151 days from May 24th to October 22nd only 11·54 in. of R fell.

ANTRIM, ARDNAVEIGH.—On the whole warm and dry, the only hard frost being on December 27th and 28th.

GARVAGH, MONEYDIG.—There was a dry spell from February 17th to March 24th, and the ground was in fine order for sowing. Warm weather in July and till August 29th ripened the crops prematurely, and what was cut early was well saved, but afterwards there was heavy loss through wind and R. There were no big storms of wind or S, and no big floods. An extra quantity of fine weather occurred in the summer.

OMAGH, EDENFEL.—Another mild winter, followed by a wet spring and early summer. July and August were favourable, especially the latter. September was very wet; October a perfect autumn month, and November and December normal.

BUNCRANA, ROCKFORT.—A very fine and prosperous year.

LOUGH SWILLY, CARRABLAGH.—The wettest year since the record commenced in 1888, and the only one having two months with more than 7·00 in. of R.

HEAVY FALLS IN SHORT PERIODS IN 1899.

THE following long list of special observations of remarkable rains is, we think, very creditable to an organization composed almost entirely of amateur observers, occupied mostly away from their rain-gauges during the daytime, and, in the vast majority of cases, unprovided with either recording or storm rain-gauges.

The total number of falls tabulated as noteworthy is 116, or about 40 per cent. more than the average for the last 5 years.

April and December are the only months for which no record appears, but the numbers in the winter months are trivial. Naturally the thunderstorm months yield by far the greatest numbers, and the four months June to September include 100 entries, or more than five-sixths of the total number. For June there are 24 entries divided between three days; for July there are 28 entries distributed over ten days; for August 20 entries on six days, and for September 28 entries on five days.

On referring to the Observers' remarks on the days in an earlier part of this volume, it will be found that electrical manifestations were recorded on 22 out of these 24 days, showing clearly the inter-dependence of the two phenomena.

The most marked dates are June 28th and 29th with 23 records, July 22nd and 23rd with 15 records, August 15th with 12 records, and September 5th to 7th with 24 records.

The stations at which the falls on June 28th and 29th were recorded are clustered in the south of England (thickly in Hampshire and on the borders of the adjoining counties, Surrey and Wilts) and in the West of the Kingdom from Bristol to Preston, with isolated instances in Lincolnshire, Yorkshire and Kincardineshire.

The heavy rains of July 22nd and 23rd occurred mostly in the extreme South of England, from Devon to Kent, with individual

records at Killarney, Barry on the Bristol Channel, and Cavendish in Suffolk.

The storms of August 15th gave heavy falls in Southern Central England; over the upper Thames watershed in Gloucestershire and Oxfordshire; at the head of the Lea watershed around Hitchin, and in the South of Suffolk, and single records in Dorset and Northampton.

For September 5th to 7th the records cluster thickly round London, and stretch from W. Kent through Surrey and Sussex to the coast of Hampshire and Dorset. They occur also sparsely over the West Midland Counties, with an isolated instance at Brecon.

Too much importance must not be attached to this geographical distribution, inasmuch as it is to a considerable extent dependent upon the varying number of rainfall observers in the different districts, and also upon their occupations. For instance, in agricultural districts observers are more likely to be near to their gauges than are observers engaged in the manufacturing centres.

We now have to consider the importance of the individual records, and find that eleven entries in the table have the x attached, showing that they are exceptional and come above the upper curve in the diagram. This is about an average number, but far below 1897, when there were no fewer than 23 "exceptional" falls recorded. The dates of occurrence are:—

May 24th, June 28th, July 22nd, Sept. 7th ...	1 on each day.
July 23rd and August 6th	2 ,, ,, ,,
August 15th	3

showing no great concentration on one day or in any one storm.

Another method of comparison which has been adopted in former years is to take the number of entries of less than 2 hours' duration and the average rate per hour for those entries.

Entries of less than two hours' duration.

Year.	Number.	Average rate per hour. in.
1892	30	2·07
1893	49	1·86
1894	52	1·68
1895	71	1·81
1896	53	1·51
1897	73	1·95
1898	40	1·73
Mean	53	1·80
1899	85	1·80

Here, again, we find a resultant value exactly the average, but a much increased number of observations; in fact, the greatest number in any year, and considerably more than even in 1897, though the rate per hour is less.

The most important records in the table are:—

			inches.	hr. min.	Rate per hour. in.
July 23...	II.	Portsmouth, Milton	3·25	2 0	1·63
,, 22...	V.	Dorchester Water Works ...	2·56	1 0?	2·56
,, 23...	XI.	Barry W.W., Biglis	2·50	1 10	2·14
Sept. 7...	II.	Petworth Park.....	2·56	1 40	1·54

The most remarkable entry, 3·25 inches in two hours, though a rain not likely to occur twice in a century at any one station, is far from unprecedented among English records.

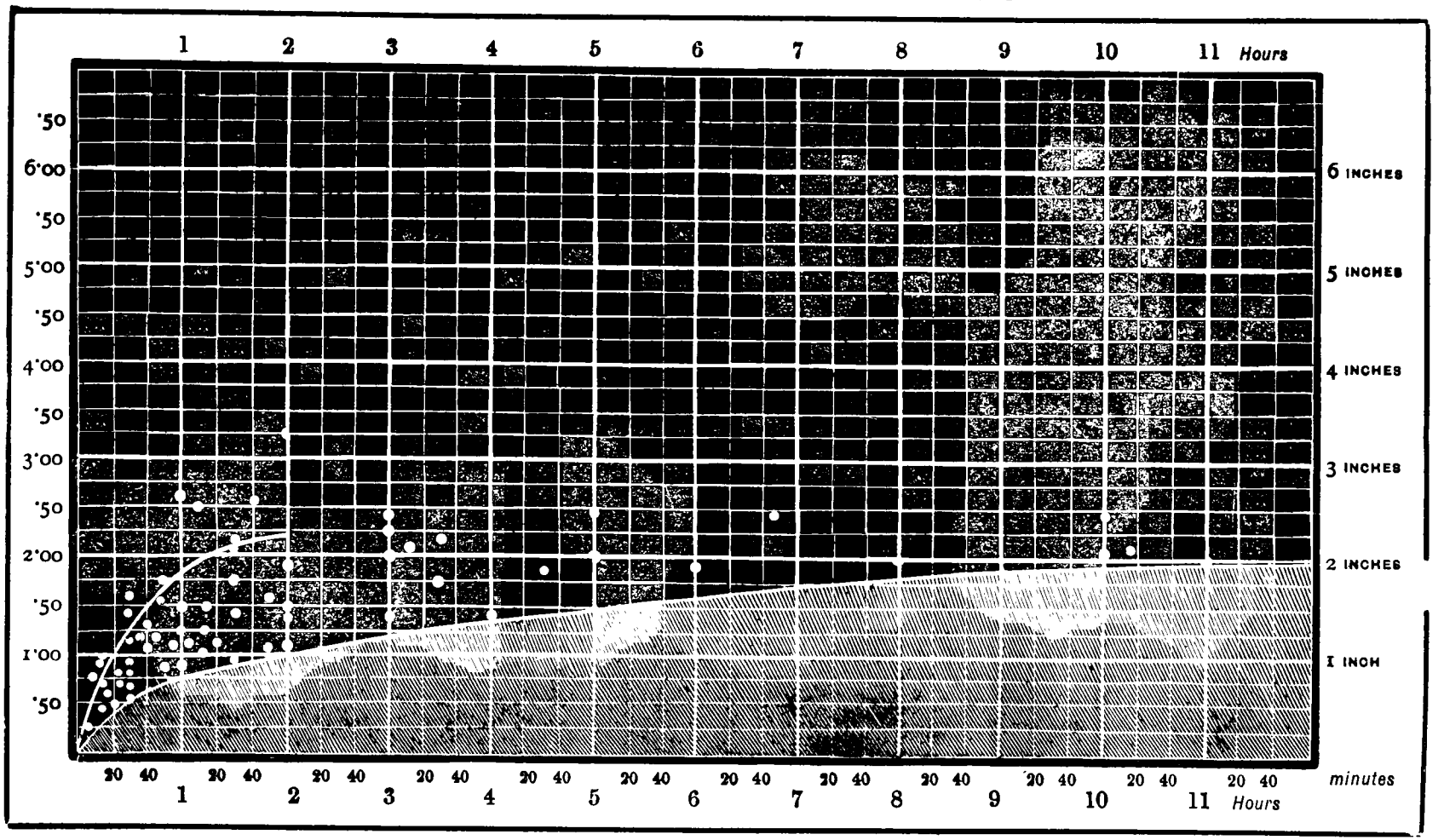
Heavy Falls in Short Periods in 1899.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Feb. 7 ...	VI.	King's Heath, Cambridge Rd.	·10	...	2	3·00
Nov. 2 ...	VIII.	Southport.....	·21	..	3	4·20
June 20 ...	VI.	King's Heath, Cambridge Rd.	·18	...	4	2·70
Nov. 2 ...	VIII.	Southport.....	·26	...	7	2·23
Aug. 31 ...	IV.	Sudbury, Friars Street.....	·19	...	7	1·63
May 20 ...	I.	London, Camden Square, N.W.	·17	...	7	1·46
July 23 ...	II.	Tunbridge, Primrose Hill.....	·40	...	8	3·00
Sep. 6 ...	I.	London, Camden Square, N.W.	·29	...	9	1·93
Oct. 12 ...	VI.	Salt Vicarage	·40	...	10	2·40
June 28 ...	,,	King's Heath, Cambridge Rd.	·30	...	10	1·80
May 15 ...	,,	Salt Vicarage	·25	...	10	1·50
Jan. 16 ...	II.	Kearsney Abbey	·23	...	10	1·38
May 24 ...	VII.	Folkingham, Horbling	·75	...	12	3·75x
Sep. 6 ...	I.	London, Camden Square, N.W.	·40	...	13	1·85
,, 16 ...	VI.	King's Heath, Cambridge Rd.	·40	...	14	1·71
Aug. 6 ...	,,	Gloucester, Hempsted	1·00?	...	15	4·00?x
Sep. 6 ...	II.	Wimbledon Sewage Works ...	·82	...	15	3·28
July 7 ..	XI.	Pool Quay Vicarage	·72	...	15	2·88
June 28 ...	II.	Botley, Hall Court.....	·70	...	15	2·80
July 7 ...	,,	Godalming, Northanger	·51	...	15?	2·04?
,, 23 ...	V.	Winterbourne Herringstone...	·45	...	15	1·80
Sep. 6 ..	IV.	Leyton, Lea Bridge Road.....	·70?	...	18	2·33?
Aug. 15 ...	,,	Cavendish	·65	...	18	2·17
,, ,, ...	III.	Knebworth	·80	...	19	2·53
Sep. 6 ...	II.	Sevenoaks, Chevening Gardens	·96	...	20?	2·88?
Aug. 15 ...	III.	Datchworth Rectory	·76	...	20	2·28
June 28 ...	XI.	Llanvihangel Court	·72	...	20?	2·16?
July 1 ...	IX.	Middleton-in-the-Wolds	·66	...	20	1·98
,, 17 ..	XIII.	Drummore [Musselburgh].....	·62	...	20	1·86

Heavy Falls in Short Periods in 1899—continued.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
Sep. 6 ...	II.	Betchworth, The Holmes.....	·61	... 20	1·83
Aug. 15 ...	IV.	Sudbury, Friars Street.....	·49	... 20	1·47
Nov. 3 ...	XXI.	Kilkenny, Sion Villa.....	·40	... 20	1·20
Sep. 6 ...	II.	Erith, Crossness	·37	... 20	1·11
,, ,, ...	,,	Bickley, Elmhurst.....	·72	... 25	1·73
,, 7 ...	III.	Steeple Aston	·52	... 25	1·25
Aug. 15 ...	,,	Oundle	1·63	... 30	3·26x
,, 6 ...	VI.	Gloucester, Hempsted	1·43	... 30	2·86x
,, 7 ...	XI.	Llandovery, Toun	1·21	... 30	2·42
Sep. 6 ...	I.	London, Strand, W.C.	·98	... 30	1·96
June 28 ...	II.	Farnham, Short Heath Lodge	·95?	... 30	1·90?
,, 29 ...	IX.	Baldersby.....	·90	... 30	1·80
Sep. 6 ...	I.	London, City Road	·86	... 30	1·72
July 12 ...	IX.	Doncaster, Wadworth Hall...	·77	... 30	1·54
July 23 ...	II.	Godalming, Northanger	·75	... 30	1·50
Aug. 30 ...	,,	Wickham, The Croft.....	·75	... 30	1·50
,, ,, ...	,,	Bishops Waltham, Northbrook Ho	·75	... 30	1·50
Sep. 6 ...	V.	Poole, Parkstone	·70	... 30	1·40
July 23 ...	II.	Sheppey, Leysdown	·60	... 30	1·20
Sep. 7 ...	VI.	Cirencester, Further Barton..	1·23	... 35	2·11
July 22 ...	V.	Kingsteignton.....	1·30	... 40	1·95
,, 12 ...	IX.	Hull, Pearson Park	1·14	... 40	1·71
Aug. 15 ...	V.	Gillingham	1·60	... 45	2·13x
July 24 ...	II.	Horsley, Woodcote Lodge ...	1·58	... 45	2·11
Aug. 15 ...	III.	Watlington, Pyrton Manor ...	1·58	... 45	2·11
July 22 ...	V.	Kenton, Southtown House ...	1·20	... 45	1·60
,, 6 ...	II.	Maidstone, Lower Tovil	1·07	... 45	1·43
June 28 ...	V.	Calne, Calstone Rectory	·85	... 45	1·13
Aug. 15 ...	II.	Long Wittenham, Manor Ho.	1·75	... 50	2·10x
July 22 ...	V.	North Cadbury Rectory	·80	... 50	·96
June 28 ...	VI.	Tenbury, Rochford	1·17	... 55	1·28
July 22 ..	V.	Dorchester Water Works.....	2·56	1 0?	2·56?x
Sep. 7 ...	II.	Haslemere, Hazelhurst.....	1·50	1 0	1·50
June 28 ...	,,	Horsell, Lindisaye.....	1·50?	1 0	1·50?
Sep. 7 ...	,,	Midhurst, Borden Wood	1·25	1 0	1·25
June 28 ...	V.	Alderbury	1·17	1 0?	1·17?
,, ,, ...	VIII.	Aughton Springs	·85	1 0	·85
,, 29 ...	,,	Aigburth, Holmfield.....	·81	1 0	·81
Aug. 15 ...	VI.	Stow-on-the-Wold, Oddington	1·15	1 5	1·06
July 23 ...	XI.	Barry W.W., Biglis	2·50	1 10	2·14x
,, ,, ...	II.	Riverhead Vicarage	1·48?	1 10	1·27?
Sep. 5 ...	XI.	Brecon Llandefaelog-fach.....	1·50	1 15	1·20
,, 6 ...	II.	Christchurch, Mudeford	1·30	1 15	1·04
June 29 ...	XVII.	Fettercairn, The Burn	1·25	1 15	1·00
,, 28 ...	VI.	West Bromwich	1·01	1 15	·81
July 7 ...	XI.	Abergavenny, Dyne House ...	1·14	1 20	·86
June 28 ...	II.	Hartley Maudit Rectory	2·20	1 30	1·47x
Aug. 7 ...	XI.	Llanwrda, Dolaucothy	2·08	1 30	1·39
July 11 ...	XXI.	Carlow, Browne's Hill	1·75	1 30	1·17
,, 22 ...	XX.	Killarney, Woodlawn	1·72?	1 30?	1·15?
June 29 ..	VI.	Oswestry, The Mount Res. ...	1·40	1 30?	·93?

HEAVY FALLS IN SHORT PERIODS.



The shaded portion represents falls too numerous to require insertion ; the short white curve, extremes rarely exceeded.

Heavy Falls in Short Periods in 1899—continued.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
July 22 ...	V.	Winterbourne Herringstone...	·96	1	30	·64
June 28 ..	II.	Farnham, The Bourne Vic. ...	·91	1	35	·57
Sep. 7 ...	,,	Petworth Park	2·56	1	40	1·54x
June 28 ...	,,	Horsell, Lindisaye.....	1·62	1	50	·88
Aug. 27 ...	IX.	Halifax, S. Owram	1·07	1	50	·58
July 23 ...	II.	Portsmouth, Milton	3·25	2	0	1·63x
June 29 ...	,,	Deal and Walmer W.W.	1·98	2	0	·99
Sep. 5 ...	,,	Christchurch, Winkton Lodge	1·86	2	0	·93
June 28 ...	VI.	Newport, Edgmond	1·50	2	0	·75
Sep. 29 ...	IV.	Grays Sewage Works	1·39	2	0?	·70?
Aug. 15 ...	VI.	Tenbury, Rochford	1·08	2	0	·54
Sep. 6 ...	,,	West Bromwich	1·02	2	0	·51
July 23 ...	V.	Dorchester, Wollaston House	2·40	3	0?	·80?
June 28 ...	II.	Farnham, Dippen Hall	2·27	3	0	·76
Aug. 15 ...	,,	Wantage, Letcombe Regis ...	2·25	3	0	·75
June 28 ...	VI.	Bewdley, Winterdyne Gardens	2·00	3	0	·67
,, 29 ...	VII.	Kirkstead, Woodhall Spa.....	1·34	3	0	·45
Sep. 6 ...	V.	Poole, Parkstone	2·06	3	15?	·63?
,, 5 ..	,,	Swanage, Royal Victoria Hotel	2·21	3	30	·63
,, 6 ...	VI.	Weston Park [Shifnal]	2·14	3	30	·61
,, ,, ...	II.	Bournemouth, Kempsey	1·75	3	30	·50
July 6 ...	XX.	Caher, Duneske	1·41	4	0	·35
,, 12 ..	X.	Brampton, Denton House.....	1·84	4	30	·41
June 29 ..	II.	Eastry, Great Walton	2·49	5	0	·50
Aug. 15 ...	III.	Watlington, Pyrton Manor ...	2·04	5	0	·41
Feb. 5 ...	V.	Flushing, Trefusis	1·79	6	0	·30
Nov. 3 ...	X.	Portinscale	1·71	6	0	·29
Sep. 29 ...	II.	Worthing, Ellesmere.....	2·49	6	45	·37
,, ,, ...	,,	Dorking, West Street	2·00?	8	0	·25?
Nov. 7 ...	X.	Portinscale	2·45	10	0	·25
Mar. 29 ...	XIII.	Linlithgow, Nether Parkley ..	2·06	10	0	·21
July 19 ...	XI.	Llwydiarth Esgob	2·15	10	15	·21
,, 22 ...	IV.	Cavendish	2·00	11	0	·18
Nov. 2 & 3	II.	Haslemere, Lower Street.....	2·22	16	0	·14
Oct. 27 ...	,,	West Dean	2·04	18	0	·11
Oct. 1 & 2	IX.	Middlesborough, Ormesby ...	2·23	20	30	·11

HEAVY FALLS ON RAINFALL DAYS IN 1899.

THE precision of this section of the work is, to some extent, dependent upon the extent to which observers adhere to the recognised hour of observation (9 a.m.), and obey the rule as to entering the readings made at 9 a.m. to the preceding day. Fortunately, from year to year, these rules are more rigorously observed, and there are very few instances in which there is any doubt as to the true date of any fall.

It may be well to explain precisely what records are dealt with in the following pages. For each station at which the gauge is read every day the greatest rainfall on any one day in the year is tabulated, and this is known as the maximum fall. For the sake of brevity it is expressed by the letter M.

It would obviously be undesirable to print all these falls (nearly 3,000), as those of importance would be lost among the great number of insignificant entries. It has, therefore, been the practice for several years to print those which reach 2·50 inches, or which reach 7·5 per cent. of the total for the year. The latter limit being adopted in order that falls at dry stations may be equally represented with those at wet stations where excessive rains are more common.

For the sake of completeness, the maximum falls are discussed from two dissimilar points of view. First, a running commentary, arranged in order of date, setting out the individual falls and the days on which the most remarkable rains of the year occurred, described as PART I.—CHRONICLE. Second, an epitome of the whole number of records, designed to illustrate the character of the maximum falls as a whole, and the importance of the year under consideration in comparison with the similar data for other years. This is described as PART II.—ABSTRACT.

PART I.—CHRONICLE.

JANUARY 18TH.

A winter rain, producing the **M** at about 100 stations, mostly in the N. of England and in the S.W. and W. of Scotland, but also at stations in Orkney and Donegal. It yielded 12 falls of more than three inches; three of more than four inches, and one above five inches, and provides seven of the entries in Table I. of the Abstract—the 16 greatest falls of the year. These falls were, however, all recorded at wet stations in the Lake District, and are by no means exceptional for the locality.

VIII.	Skelwith Fold [Ambleside]	2·90	in.	or 3·6	per cent.
IX.	Oughtershaw Hall	2·72	,,	3·9	,,
X.	Seathwaite	4·78	,,	3·8	,,
,,	Rosthwaite	4·94	,,	4·6	,,
,,	Buttermere (Hassness)	3·84	,,	3·6	,,
,,	Borrowdale (Grange)	5·21	,,	5·6	,,
,,	Keswick (Barrow House)	3·45	,,	4·6	,,
,,	,, (Deer Close)	2·69	,,	4·1	,,
,,	,, (Eskin Place)	3·23	,,	5·0	,,
,,	,, (Bank)	3·06	,,	4·9	,,
,,	,, (Shu-le-Crow)	3·21	,,	4·8	,,
,,	Ambleside (Skelwith Bridge)	3·21	,,	3·7	,,
,,	,, (Lesketh Howe)	2·55	,,	3·2	,,
,,	Elterwater Hall	2·75	,,	3·3	,,
,,	Dungeon Ghyll	3·43	,,	3·1	,,
,,	Grasmere (High Close)	2·50	,,	3·0	,,
,,	,, (Pavement End)	3·47	,,	3·7	,,
,,	Orton Vicarage	3·57	,,	6·3	,,
,,	Patterdale Hall	2·95	,,	3·3	,,

JANUARY 20TH.

A rain similar in character to that of the 18th, producing the **M** at about 150 stations, chiefly in Devonshire, Lancashire, Yorkshire and Wales, and including 13 falls above three inches, and one above four inches. Although the falls average less than those on the 18th, it was a more remarkable fall, as it occurred in parts of the Kingdom rather less wet. It produced five records which appear in Table I.

V.	Buckfastleigh (Bossel Park)	3·05	in.	or 5·2	per cent.
,,	Ashburton (Druid House)	2·78	,,	5·5	,,
IX.	Slaidburn (Dunsop Houses)	2·70	,,	4·5	,,
,,	Llwynypia (Glyncornel)	2·66	,,	3·6	,,
XI.	Tredegar (The Willows)	2·59	,,	4·5	,,
,,	Glyncorrwg	3·04	,,	4·2	,,
,,	Cwmaman	2·74	,,	5·6	,,
,,	Mountain Ash (Maesydderwen)	3·32	,,	6·3	,,
,,	,, ,, (Darranlas Res.)	3·60	,,	6·3	,,
,,	,, ,, (Clydach Res.)	3·80	,,	5·6	,,
,,	Treherbert (Bute Colliery)	4·17	,,	6·0	,,
,,	,, (Tyn-y-waun)	3·26	,,	4·5	,,

XI.	Aberdare (The Mardy)	2·92 in.	or 5·2	per cent.
,,	,, (Abernant)	3·55 ,,	6·4	,,
,,	Merthyr (Pentrebach House)	2·72 ,,	4·8	,,
,,	Nanthir Reservoir [Aberdare]	3·18 ,,	5·4	,,
,,	Taff Fechan (Pentwyn Res.)	2·56 ,,	4·2	,,
,,	Cardiff W. W. (Cantreff Res.)	2·68 ,,	4·1	,,
,,	,, ,, (Beacons Res., No. 6)	3·39 ,,	5·0	,,
,,	Taff Fechan (Neuadd Res.), No. 4	3·10 ,,	4·2	,,
,,	Llanfrynach (Tymawr)	2·58 ,,	5·8	,,
,,	Abergwesyn Vicarage	3·43 ,,	5·0	,,
,,	Rhayader (Tyrmynydd)	2·54 ,,	4·0	,,
,,	,, (Nantgwillt) *new g.*	2·75 ,,	4·3	,,
,,	Rhydlydan	2·95 ,,	4·3	,,
,,	Bettws-y-coed (Aberllyn)	3·50 ,,	6·9	,,

JANUARY 21ST.

An insignificant M at wet stations on the West coast of Scotland.

XVIII.	Isle of Lewis (Stornoway)	2·75 in.	or 4·6 per cent.

MARCH 25TH.

A day of heavy snowfall, which yielded the M at less than a dozen stations, more than half being in Lancashire.

XI.	Dolgelly (Dolmelynllyn)	3·23 in.	or 3·9	per cent.
,,	Rhiwbryfdir=Oakley Quarries	3·30 ,,	3·7	,,
XV.	Islay (Gruinart School House)	2·10 ,,	9·6	,,

MAY 11TH.

One of the early TSS of the year, generally giving falls under 1·50 in., but being the M at about two dozen stations in E. and N. Yorkshire and in Durham. Several stations in the Midlands reported the well-known phenomenon of black rain on this day.

IX.	Easingwold (Marton Vicarage)	1·80 in.	or 7·9 per cent.

MAY 17TH.

The rain of this day scarcely justifies mention, but a fall exceeding the limit occurred at a wet station on the West coast of Scotland.

XVIII.	S. Uist (Ushenish)	3·60 in.	or 4·0 per cent.

JUNE 28TH

Thunderstorms were very general on this day, and were severe in many parts of England, as may be seen on reference to the remarks on the day. The M occurred at some 50 stations mostly in the country around Birmingham, but in very few instances was 1·50 in. reached. On the borders of Surrey and Hampshire there was very heavy R and H. This and the following day produced a considerable number of the heavy falls in short periods.

II.	Farnham (Dippen Hall)	2·27 in. or	7·5 per cent.
,,	Hartley Maudit Rectory	2·20 ,,	7·8 ,,
,,	Crondall (Warren Corner).....	2·15 ,,	8·2 ,,
VI.	Bewdley (Winterdyne Gardens)	2·02 ,,	7·5 ,,
,,	Kidderminster (Prospect Hill).....	1·62 ,,	7·7 ,,

JUNE 29TH.

A violent TS gave large amounts and high percentages in the extreme East of Kent.

II.	Deal and Walmer W.W.	2·60 in. or	9·9 per cent.
,,	Eastry (Great Walton)	2·49 ,,	9·6 ,,

JULY 7TH.

The M at a few stations in Central England, but generally insignificant.

III.	Gorefield Vicarage	1·85 in. or	8·7 per cent.
VII.	Worksop (Osberton Gardens)	2·02 ,,	8·4 ,,

JULY 11TH.

Electrical disturbance again and unimportant M at some five-and-twenty stations, mostly in Wales or Ireland.

XXI.	Rathmines (Terenure)	2·40 in. or	8·7 per cent.

JULY 20TH.

The M over Anglesea ; and though not a fall of the first magnitude, both the amounts and the percentages are large.

XI.	Llangadwaladr (Bodorgan)	3·25 in. or	8·3 per cent.
,,	Holyhead	3·36 ,,	9·2 ,,

JULY 22ND AND 23rd.

It is almost impossible to rigorously separate these two days, owing to the difference between the *Civil day* and the *Rainfall day*. At many stations much of the fall occurred in the early morning of the 23rd, but at the great majority there was more than one storm. Several of the falls attributed to the 23rd, at stations in Essex, no doubt occurred partly before 9 a.m. on that day. The M at about 60 stations is entered to the former, and at about 40 stations to the latter, day. As a rule, neither the amounts nor the percentages are very remarkable. For the 22nd there is only one entry exceeding three inches and one exceeding 10 per cent. For the 23rd, there is also one value above three inches, but there are percentages of 10·6 and 12·9. The M on these days were chiefly distributed over Devon, Wilts, Dorset, Middlesex, Herts, Bucks and the Eastern

Counties, or, say, over the district south and east of a line running from Plymouth to the Wash. These rains naturally gave many entries in the table of heavy falls in short periods.

JULY 22ND.

IV.	Danbury Rectory	2·09 in.	or 9·1	per cent.
,,	Writtle (Melbourne)	2·12 ,,	9·7	,,
,,	Chelmsford (High Street)	1·75 ,,	7·5	,,
,,	,, (Roxwell)	2·00 ,,	8·5	,,
,,	Hatfield Peverel (Cardfields)	2·00 ,,	9·4	,,
,,	Witham (Little Braxted Hall)	1·98 ,,	8·9	,,
,,	,, (Freebournes)	1·85 ,,	8·0	,,
,,	Braintree (Bocking, Fennes)	1·71 ,,	7·7	,,
,,	,, (,, Place)	1·90 ,,	8·2	,,
,,	Dedham (Dalethorpe)	1·93 ,,	8·4	,,
,,	Sudbury (Newton Road)	2·32 ,,	10·0	,,
V.	Wareham (Binnegar Hall)	2·85 ,,	8·9	,,
,,	Dorchester Water Works	2·56 ,,	7·0	,,
,,	Chudleigh (Trusham)	2·71 ,,	6·7	,,

JULY 23RD.

II.	Guildford (Craigie, Merrow)	2·07 in.	or 8·4	per cent.
,,	Portsmouth (Fort Cumberland)	1·97 ,,	9·0	,,
,,	,, (Milton)	3·25 ,,	12·6	,,
,,	Havant	1·85 ,,	8·0	,,
IV.	Southminster	1·57 ,,	7·7	,,
,,	Bradwell-on-Sea (Bradwell Hall)	1·99 ,,	9·3	,,
,,	Chelmsford (Springfield Place)	2·30 ,,	9·2	,,
,,	Great Clacton (Clay Hall)	2·45 ,,	10·6	,,
,,	Great Leighs	1·67 ,,	8·3	,,
,,	Colchester (Surrey Villa)	1·71 ,,	7·7	,,
,,	Braintree (Bocking)	2·24 ,,	8·5	,,
,,	Beccles (Waveney House)	1·95 ,,	8·0	,,
V.	Wareham (South Street)	2·65 ,,	9·3	,,
XI.	Barry W. W. (Biglis)	2·50 ,,	8·6	,,

AUGUST 5TH.

The **M** for County Dublin and a few neighbouring stations, and naturally a TS. Both the amounts and percentages are considerable.

XXI.	Donnybrook (Sea View Terrace)	2·01 in.	or 7·8	per cent.
,,	Dublin (Fitz William Square)	2·23 ,,	8·0	,,
,,	Balbriggan (Ardgillan)	2·73 ,,	9·3	,,
,,	,, (Laragh)	2·32 ,,	7·7	,,

AUGUST 7TH.

More TSS, and the **M** at 30 stations in Devon, Somerset and Monmouth. The amounts generally moderate, and even the three which claim insertion give comparatively small percentages of the annual fall.

V.	Wrington (West Hay)	2·76 in.	or 7·8	per cent.
XI.	Chepstow (Itton Court)	2·91 ,,	7·5	,,
,,	Llanwrda (Dolaucothy)	3·43 ,,	6·3	,,

AUGUST 15TH.

This is one of the dates that appears frequently in the table of heavy falls in short periods, but regarded from the point of view of M, it can scarcely be called phenomenal. The M occurred at about 60 stations, mostly in Division III., but a few in Divisions II., IV. and VI.—say, South Central England. The district, speaking generally, is a dry one, and the percentages are consequently high, and no fewer than seven of them appear in Table III., which gives the sixteen highest percentages during the year.

II.	Wantage (Letcombe Regis)	2·25 in.	or 8·9	per cent.
,,	,, ...	1·87 ,,	7·6	,,
,,	Wallingford Castle.....	3·10 ,,	14·6	,,
,,	Little Wittenham Rectory	2·18 ,,	10·8	,,
,,	,, ,, ...	2·18 ,,	10·7	,,
,,	Long Wittenham (Manor House)	2·35 ,,	10·7	,,
,,	,, ,, (Lovegrove's Cott.)..	2·17 ,,	10·3	,,
,,	Abingdon (Caldecott House)	1·98 ,,	9·9	,,
,,	,, Union	1·53 ,,	7·5	,,
III.	Dorchester	2·37 ,,	11·4	,,
,,	,, (Bishop's Court)	1·97 ,,	9·6	,,
,,	Watlington (Pyrton Manor).....	2·04 ,,	8·7	,,
,,	Nuneham Park Gardens	2·15 ,,	9·5	,,
,,	Wheatfield Rectory	1·92 ,,	8·2	,,
,,	Toot Baldon (Potlands).....	1·79 ,,	8·0	,,
,,	Althorp House.....	1·68 ,,	8·0	,,
,,	Ely (The Palace).....	1·61 ,,	7·6	,,
,,	Mepal Engine	1·25 ,,	7·8	,,
,,	Littleport (Highfield House)	1·98 ,,	9·8	,,
,,	Upwell (Euximoor House)	1·75 ,,	7·5	,,
IV.	Stoke Ferry (Wereham)	2·84 ,,	11·8	,,

SEPTEMBER 5TH.

A severe TS on the borders of Dorset and Hampshire, in the early morning of the 6th, produced the M at about a dozen stations in the country surrounding Bournemouth. The fall was divided by the observation hour (9 a.m.), as will be seen by reference to the remark for Poole, Parkstone, on p. [27], and observers who adhered strictly to the rule, and thereby diminished a striking record, are worthy of all praise. The M occurred also at a few stations in Somersetshire on this day.

II.	Christchurch (Winkton Lodge)	1·86 in.	or 8·5	per cent.
V.	Swanage (Royal Victoria Hotel).....	2·21 ,,	8·5	,,
,,	Poole (Parkstone)..... *new g.*	2·08 ,,	7·5	,,

SEPTEMBER 6TH.

The M at about 60 stations, mostly in Herefordshire, Worcester, Warwick, Leicester, and south Northamptonshire. As this is a

comparatively dry district, the per centages are high, three being above 10. These storms yielded many records of heavy falls in short periods.

III.	Northampton (Berrywood)	1·90 in.	or 8·0	per cent.
,,	Pitsford (Sedgebrook)	2·48 ,,	9·7	,,
VI.	Netherton (Lodge Farm Res.).....	2·62 ,,	10·7	,,
,,	Weston Park [Shifnal]	2·14 ,,	7·7	,,
,,	Worcester (Hawford Lodge)	2·19 ,,	9·0	,,
,,	Droitwich (Holt Lock)	2·12 ,,	8·9	,,
,,	Stourbridge (Longlands)	2·87 ,,	10·2	,,
VII.	Leicester (Humberstone Asylum)	2·19 ,,	9·1	,,
,,	Thurcaston Rectory	2·55 ,,	10·5	,,
,,	Syston	2·18 ,,	7·7	,,

SEPTEMBER 7TH.

Heavy TSS produced the **M** at a few stations on the borders of Sussex and Hampshire, and also at about 40 stations in N. Northampton, in Huntingdon, Cambridge and Norfolk. A few stations in Worcestershire also recorded the **M** on this day. There is no instance of as much as three inches, but the per centages are high—four above 10 per cent., and two above 12 per cent.

II.	Petworth Park	2·56 in.	or 7·5	per cent.
,,	Petersfield (Steep Vicarage)	2·56 ,,	10·1	,,
III.	Oundle	1·90 ,,	8·6	,,
,,	Whittlesea Mere.....	1·92 ,,	9·2	,,
,,	Yaxley (Norman Cross).....	2·15 ,,	9·7	,,
,,	Chatteris (Aylesby House)	2·50 ,,	12·2	,,
,,	,, (The Priory)	2·24 ,,	10·1	,,
,,	,, (Horseway Lock).....	1·90 ,,	12·7	,,
,,	Stanground Sluice	1·80 ,,	9·0	,,
IV.	Emneth.....	1·91 ,,	8·1	,,

SEPTEMBER 29TH.

The **M** at about 150 stations, but yielding only five entries that claim insertion, the most important being the 2·65 in., or 10·1 per cent., at Worthing, which is worthy of record on both grounds. The stations are spread thickly over the Eastern half of England—Surrey, Kent, Sussex, Hants, Essex, Suffolk, Norfolk, Leicester, Lincoln and Yorks.

II.	Dorking (West Street)	1·92 in.	or 7·5	per cent.
,,	Worthing (Ellesmere)	2·65 ,,	10·1	,,
,,	Arundel (The Woodleighs)	2·03 ,,	8·1	,,
,,	Steyning (Crescent Road).....	2·21 ,,	7·5	,,
IV.	Ipswich (Belstead Hall)	1·81 ,,	8·4	,,

SEPTEMBER 30TH.

The **M** at some 70 stations—a very large proportion of them Scottish. There is no record which reaches the limit of either

2·50 in. or 7·5 per cent., but we thought it well to refer to it, as otherwise the Scottish stations are scarcely mentioned.

OCTOBER 1ST.

Numerically the most important M of the year, this being the date on which the greatest fall occurred at about 375 stations, but it yields no entry to either the table of greatest falls or of greatest percentages. Out of the whole 375 records only nine—or less than three per cent.—exceed two inches. The main fact to be learned from it being the unimportant character of the heavy rains of 1899 as a whole.

I.	Uxbridge (Harefield Park)	1·97 in.	or 8·6	per cent.
III.	Hitchin (The Maples)	1·69 ,,	7·6	,,
,,	Potton (Wrestlingworth)	1·58 ,,	7·6	,,
IX.	Wetherby (Ribston Hall).....	2·25 ,,	8·1	,,
,,	Great Ayton (Easby Hall)	2·30 ,,	8·1	,,
,,	Guisborough (Hutton Hall)	2·17 ,,	7·6	,,
,,	Middlesborough (Ormesby)	2·10 ,,	8·0	,,
XI.	Bodfari (Henblas)	2·28 ,,	7·9	,,
,,	St. Asaph (Nantllys).....	2·05 ,,	7·8	,,
,,	Llangerniew (Hafodunos).....	2·72 ,,	5·7	,,
XIII.	Whittinghame Gardens.....	2·36 ,,	8·4	,,
XVI.	Inverarity Manse	2·53 ,,	7·1	,,

OCTOBER 29TH.

A winter rain, causing the M at some 25 stations mostly in or near the extreme N. of Lancashire, but this being a wet district the amounts are mostly far from remarkable.

X.	Patterdale (Greenside Mine)	3·48 in.	or 3·6 per cent.

NOVEMBER 3RD.

A strong gale with heavy R, yielding the M at nearly 300 stations, but the falls are generally far from remarkable, on a very rough estimate, averaging about an inch, but reaching two inches at stations in Surrey, Sussex and Hants. The stations are mostly in the Southern half of England, and would probably best be described as those which happened to miss the heavy thunderstorms of the summer.

II.	Abinger Rectory.....	2·18 in.	or 7·7	per cent.
,,	Droxford (Fir Hill).....	2·05 ,,	7·7	,,

NOVEMBER 5TH.

Another rain very similar to that of November 3rd, but, as a whole, heavier, yielding a M averaging about 1·50 in. at 250 stations, a very large proportion of them in Division II. (the South-Eastern

counties), but considerable numbers in Middlesex and the South Midland counties. Twelve entries exceed two inches, and there are percentages of 9·0 and 10·0.

II.	New Malden (Sewage Works)	1·40 in.	or 7·7	per cent.
,,	Nunhead (Southwark W.W.)	1·37 ,,	7·5	,,
,,	Chiddingstone Rectory.....	1·97 ,,	7·6	,,
,,	Rochester (Abbot's Court, Hoo).....	1·67 ,,	8·1	,,
,,	Higham (Oakleigh).....	1·53 ,,	7·8	,,
,,	Rochester (Hoo St. Mary)	1·58 ,,	7·5	,,
,,	Brighton (Kemp Town).....	1·71 ,,	8·4	,,
,,	,, (Old Steine)	1·80 ,,	7·7	,,
,,	,, (W.W., Patcham).....	2·03 ,,	7·9	,,
,,	,, (W.W., Race Hill)	2·22 ,,	8·3	,,
,,	Iford	2·10 ,,	8·3	,,
,,	Falmer	1·94 ,,	7·5	,,
,,	Lewes (Fairhall, Southover).....	2·15 ,,	7·8	,,
,,	,, (Bedford Lodge).....	2·12 ,,	10·0	,,
,,	,, (Saxonbury).....	2·20 ,,	8·4	,,
,,	Clayton Rectory.....	2·39 ,,	7·9	,,
,,	Hurstpierpoint (Danny Park)	2·52 ,,	9·0	,,
,,	,, (The College)	2·23 ,,	8·8	,,
,,	Isfield Place.....	2·04 ,,	8·5	,,
,,	Burgess Hill (Silverdale Road)	2·19 ,,	8·2	,,
,,	,, ,, (Ote Hall).....	2·15 ,,	7·5	,,
,,	Haywards Heath	2·00 ,,	7·7	,,
IV.	Grays Sewage Works.....	1·62 ,,	8·5	,,

NOVEMBER 7TH.

The M at about 30 stations in the North of England, N. Wales, and South and East Scotland. At a good many stations the fall exceeded two inches, but the stations are mostly rather wet and the amounts are far from noteworthy.

XI.	Llanberis (Glyn Padarn)	2·74 in.	or 4·1	per cent.
XVI.	Lochearnhead (Ardvorlich)	2·62 ,,	4·1	,,

NOVEMBER 26TH.

The M at Ben Nevis and one neighbouring station.

XVIII.	Ben Nevis Observatory.....	4·33 in.	or 2·3	per cent.

DECEMBER 13TH.

The greatest rain of the year in S.W. Ireland, producing the M at nearly all stations in County Cork.

XX.	Cork (Queen's College)	2·85 in.	or 6·1	per cent.
,,	,, (The Palace)	2·70 ,,	6·0	,,

DECEMBER 16TH.

A very heavy rain at stations on the W. coast of Ireland, but yielding the M at only two. The M at a few stations in the extreme N. of Scotland occurred also on this day.

XX.	Waterville (Iveragh Lodge).....	2·65 in.	or 4·8	per cent.

DECEMBER 28TH.

The M at nearly one hundred stations mostly in the Eastern half of Ireland and in S.W. England. The falls are considerable, but the percentages as a rule low.

XI.	Ebbw Vale Waterworks	2·95 in.	or 5·4	per cent.
XX.	Knockaderry	2·64 ,,	4·5	,,
,,	Glenam [Clonmel]	3·15 ,,	7·7	,,
,,	Clonmel (Bruce Villa)	2·55 ,,	6·7	,,
XXI.	Glen-na-smoel (Water Works)	3·01 ,,	7·2	,,
XXIII.	Castlewellan (Lough Island).....	2·52 ,,	5·1	,,

PART II.—ABSTRACT.

In Table I. are given the sixteen largest falls in the rainfall day (9 a.m. to 9 a.m.) recorded in the British Isles during the year 1899, and in Table II. these records are compared with the corresponding values for 34 years. This comparison shows that the results for 1899 are not striking. First the average of the 16 entries, 3·92 in., though slightly above the average, has been exceeded in 10 years; while the greatest fall, 5·21 in., is below the average, and has been exceeded in 17 years. And in both cases the percentages are as little remarkable as the amounts.

Of the 16 falls, seven occurred on January 18th, in a winter rain, in the Lake District, and this day yielded the three highest entries in the table, all exceeding 4·75 inches. Falls which though large are very far from unprecedented. January 20th yields five entries from a similar rain in Wales, where the total rainfall being less, the percentages are higher, so that if anything, the falls though less in amount, are more remarkable. These two days leave only four entries in the table for all the rest of the year. Two of these, on May 17th and August 7th respectively, are the only summer rains in the table.

Table III. deals with the heavy falls at dry stations, that is it contains the 16 cases in which the largest proportion of the total for the year fell on one day. Here they are all thunderstorm rains, and all occurred between July 23rd and September 7th. Two entries occur for July 23rd, seven for August 15th, six for September 6th and 7th, and all these dates, it will be remembered, supplied records for the article on heavy falls in short periods.

On turning to Table IV., we again find nothing unprecedented, though both the mean percentage and the highest percentage are

above the average. This is, however, due as much to the smallness of the yearly totals, as to the largeness of the amounts on the wettest day of the year.

There is no single record which claims entry into both tables, *i.e.*, as being both a large fall and a large proportion of the total for the year. This is unusual, and shows that the two tables deal with totally distinct phenomena. The one with normal wet days at wet stations, and the other with normal thunderstorm rains at dry stations.

Table V. enables us to examine the subject from a fresh point of view: hitherto we have considered only the 16 largest falls and the 16 largest percentages, here we have the mean result of all records, not far short of 3,000 in number. It shows a normal value for 1899. The average **M** is ·04 in. less than the mean of the 34 years, the percentage is 0·3 above the mean, but this is because the total for 1899 was below the average, 30 inches instead of 33 inches. If the mean total had been the average value the mean percentage would have been 4·2 (instead of 4·7) or rather below the average.

This table incidentally throws light on the relative wetness or dryness of the year, and we find a value three inches below the average (30 inches instead of 33 inches). This is rather larger than the value given in the section devoted to the discussion of the relation of the total fall in 1899 to the average, because in that section the records are selected for their equable distribution and fair representation of the Kingdom as a whole, whereas this table includes all records, and they are much more numerous in some parts than in others. Evidently the thickly populated districts were rather drier in 1899 than the country as a whole.

Table VI. is yet another way of discussing the subject; it summarises the falls of two inches or more, and of three inches or more; it shows that, assuming an equal number of records in the earlier years, both the number of two inch and of three inch falls is below the average.

To sum up. The verdict on 1899, as regards this branch of the subject (the greatest fall on any day of the year) must be—Not remarkable.

TABLE I.—*Maximum Falls in* 1899.

Date.	Div.	Station.	Depth.	Per Cent.	Total.
Jan. 18 ...	X.	Borrowdale, Grange	5·21 in.	5·6	92·25 in.
,, ,, ...	,,	Rosthwaite	4·94 ,,	4·6	107·53 ,,
,, ,, ...	,,	Seathwaite	4·78 ,,	3·8	126·46 ,,
Nov. 26 ...	XVIII.	Ben Nevis Observatory.....	4·33 ,,	2·3	187·31 ,,
Jan. 20 ...	XI.	Treherbert, Bute Colliery ...	4·17 ,,	6·0	69·73 ,,
,, 18 ...	X.	Buttermere, Hassness	3·84 ,,	3·6	106·61 ,,
,, 20 ...	XI.	Mountain Ash, Clydach Res.	3·80 ,,	5·6	67·58 ,,
,, ,, ...	,,	,, ,, Darranlas Res.	3·60 ,,	6·3	57·28 ,,
May 17 ...	XVIII.	S. Uist, Ushenish	3·60 ,,	4·0	89·32 ,,
Jan. 18 ...	X.	Orton Vicarage	3·57 ,,	6·3	56·21 ,,
,, 20 ...	XI.	Aberdare, Abernant	3·55 ,,	6·4	55·28 ,,
,, ,, ...	,,	Bettws-y-coed, Aberllyn ...	3·50 ,,	6·9	50·99 ,,
Oct. 29 ...	X.	Patterdale, Greenside Mine.	3·48 ,,	3·6	96·64 ,,
Jan. 18 ...	,,	Grasmere, Pavement End...	3·47 ,,	3·7	92·78 ,,
,, ,, ...	,,	Keswick, Barrow House ...	3·45 ,,	4·6	75·12 ,,
Aug. 7 ...	XI.	Llanwrda, Dolaucothy	3·43 ,,	6·3	54·21 ,,

TABLE III.—*Maximum Percentages in* 1899.

Date.	Div.	Station.	Per Cent.	Fall.	Total.
Aug. 15 ...	II.	Wallingford Castle.....	14·6	3·10 in.	21·21 in.
Sept. 7 ...	III.	Chatteris, Horseway Lock..	12·7	1·90 ,,	14·97 ,,
July 23 ...	II.	Portsmouth, Milton Hospital	12·6	3·25 ,,	25·76 ,,
Sept. 7 ...	III.	Chatteris, Aylesby House...	12·2	2·50 ,,	20·46 ,,
Aug. 15 ...	IV.	Stoke Ferry, Wereham.....	11·8	2·84 ,,	24·13 ,,
,, ,,	III.	Dorchester	11·4	2·37 ,,	20·76 ,,
,, ,,	II.	Little Wittenham Rectory..	10·8	2·18 ,,	20·26 ,,
Sept. 6 ...	VI.	Netherton, Lodge Farm Res.	10·7	2·62 ,,	24·38 ,,
Aug. 15 ...	II.	Long Wittenham, Manor Ho.	10·7	2·35 ,,	21·89 ,,
,, ,, ...	,,	Little Wittenham	10·7	2·18 ,,	20·36 ,,
July 23 ...	IV.	Great Clacton, Clay Hall ...	10·6	2·45 ,,	23·03 ,,
Sept. 6 ...	VII.	Thurcaston Rectory	10·5	2·55 ,,	24·40 ,,
Aug. 15 ...	II.	Long Wittenham, Lovegrove's Cott.	10·3	2·17 ,,	21·04 ,,
Sept. 6 ...	VI.	Stourbridge, Longlands.....	10·2	2·87 ,,	28·13 ,,
,, 29 ...	II.	Worthing, Ellesmere.....	10·1	2·65 ,,	26·23 ,,
,, 7 ...	,,	Petersfield, Steep Vicarage,	10·1	2·56 ,,	25·34 ,,

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

	MEAN.			ABSOLUTE.			
Years.	Depth.	Per Cent.	Mean total fall at these stations.	Depth.	Per Cent.	Station.	Division.
	in.		in.	in.			
1865 ...	3·67	6·4	61·8	6·41	5·5	Seathwaite.....	X.
1866 ...	3·40	—4·4	86·2	6·38	3·6	,, ...	,,
1867 ...	3·17	9·0	— 42·5	4·78	17·7	Hartlip	II.
1868 ...	3·32	6·1	65·9	5·60	4·8	Camusinas.....	XV.
1869 ...	3·68	5·0	77·7	6·70	4·5	Seathwaite.....	X.
1870 ...	3·20	7·5	43·8	6·00	17·1	Tongue	XIX.
1871 ...	3·08	5·7	61·6	4·24	9·6	Melbury.....	V.
1872 ...	4·10	6·6	73·1	5·82	3·2	Seathwaite.....	X.
1873 ...	2·97	6·2	60·7	4·20	—2·9	,, ...	,,
1874 ...	3·96	4·6	86·5	5·32	4·4	Bryn Gwynant	XI.
1875 ...	4·52	7·8	63·9	5·33	9·7	Newport W. W.	,,
1876 ...	3·37	5·9	57·6	4·50	5·5	Foffany	XXIII.
1877 ...	3·77	4·6	93·4	4·98	5·3	Skye, Portree..	XVIII.
1878 ...	3·57	7·4	57·2	4·24	8·6	Springfield ...	XI.
1879 ...	3·66	9·5	50·4	—4·05	4·1	Little Langdale	X.
1880 ...	3·50	7·7	51·1	4·75	3·9	Seathwaite.....	,,
1881 ...	3·65	4·9	83·1	5·42	4·7	Sligachan	XVIII.
1882 ...	3·28	4·5	84·3	4·51	3·0	Seathwaite ...	X.
1883 ...	3·69	6·1	72·4	5·27	9·0	Glen-na-Smoel	XXI.
1884 ...	3·45	4·7	80·7	6·78	5·0	Seathwaite ...	X.
1885 ...	3·45	5·8	68·2	4·62	3·2	,, ...	,,
1886 ...	3·77	7·7	58·7	4·20	9·9	Little Bredy ...	V.
1887 ...	—2·83	6·1	56·8	4·93	13·0	Galway Q. Coll.	XXII.
1888 ...	4·20	5·9	77·0	5·20	5·4	Wythburn Vic.	X.
1889 ...	3·89	+9·9	49·2	4·45	16·5	N. Ockendon ..	IV.
1890 ..	5·01	6·9	95·1	7·29	3·7	Ben Nevis Obs.	XVIII.
1891 ...	4·38	4·7	+108·4	6·14	4·2	Seathwaite.....	X.
1892 ...	4·47	7·9	70·1	5·80	4·5	,, ...	,,
1893 ...	3·84	5·8	89·6	4·96	3·5	,, ...	,,
1894 ...	3·95	5·7	83·0	7·74	5·1	Ben Nevis Obs.	XVIII.
1895 ...	3·80	7·2	62·2	4·83	16·1	Mellington Hall	XI.
1896 ...	3·31	5·9	67·5	4·59	3·7	Seathwaite ...	X.
1897 ...	+5·24	5·3	95·1	+8·03	5·6	,, ...	,,
1898 ...	4·61	5·3	100·8	6·70	+18·1	Angerton Hall	,,
Mean ...	3·76	6·3	71·6	5·43	7·2	.....	...
1899 ...	3·92	5·0	86·6	5·21	5·6	Borrowdale ...	X.
Diff. ...	+ ·16	— 1·3	+15·0	—·22	—1·6	.....	...

TABLE IV.—*Comparison of Max. Percentages with those in previous years.*

MEAN.				ABSOLUTE.			
Years.	Per Cent.	Depth.	Mean total fall at these Stations.	Per Cent.	Depth.	Station.	Division.
		in.	in.		in.		
1865 ...	9·9	2·62	28·4	13·0	4·40	Fleckney.....	VII.
1866 ...	8·1	2·31	29·3	10·0	—2·48	Burton	VI.
1867 ...	11·0	2·85	25·3	17·7	4·78	Hartlip	II.
1868 ...	8·6	2·55	30·1	11·0	4·00	Tongue	XIX.
1869 ...	7·9	2·17	27·9	10·0	3·40	Tillydesk	XVII.
1870 ...	10·0	2·34	22·9	17·1	6·00	Tongue	XIX.
1871 ...	9·0	2·43	26·8	11·5	3·62	Warter	IX.
1872 ...	8·1	3·43	+42·5	10·0	3·70	Hillington Hall	IV.
1873 ...	9·7	2·39	24·7	11·8	2·77	Oscott	VI.
1874 ...	9·2	2·16	23·7	11·9	2·50	Welwyn.. [Hall	III.
1875 ...	10·2	+3·76	37·5	13·2	3·95	Letheringsett ...	IV.
1876 ...	— 7·4	2·49	33·7	— 8·5	3·70	Cragside	X.
1877 ...	8·2	2·73	33·1	9·3	3·09	Wellington.....	VI.
1878 ...	10·2	3·05	30·0	11·8	3·90	Haverstock Hill	I.
1879 ...	10·9	3·31	30·5	12·3	3·80	CambridgeM.V.	III.
1880 ...	9·5	3·06	32·3	11·7	3·34	Marmont Pr. L.	,,
1881 ...	8·1	2·42	30·3	10·6	3·20	Aboyne Castle..	XVII.
1882 ...	7·7	2·54	33·4	9·1	2·80	Bothalhaugh ...	X.
1883 ...	9·7	3·00	31·1	12·3	4·31	Skegness.....	VII.
1884 ...	11·7	2·33	—20·0	13·8	2·66	Diss(Thelveton)	IV.
1885 ...	8·9	2·71	30·7	9·6	2·62	Beccles,Ellough	,,
1886 ...	10·1	3·32	32·7	11·5	4·10	Methley Park...	IX.
1887 ...	9·5	—2·11	21·9	13·0	4·93	Galway, Q. Coll.	XXII.
1888 ...	10·9	3·05	28·3	11·8	3·24	Rothamstead ...	III.
1889 ...	12·7	3·51	27·8	16·5	4·45	N. Ockendon...	IV.
1890 ...	+14·4	3·60	25·1	17·2	3·68	Slough, Langley	III.
1891 ...	9·7	2·67	27·6	14·4	4·00	Sunnyside Aslm	XVI.
1892 ...	12·3	3·37	27·4	15·0	4·27	Tyntesfield	V.
1893 ...	12·0	2·81	23·4	16·2	4·48	Cranmer Hall...	IV.
1894 ...	9·0	2·54	28·3	11·1	3·56	Sidcup.....	II.
1895 ...	10·0	2·87	28·8	16·1	4·83	Mellington Hall	XI.
1896 ...	9·5	2·50	26·3	11·1	2·78	Barkby	VII.
1897 ...	10·8	2·48	23·2	14·1	2·40	Chatteris, H. L.	III.
1898 ...	11·5	2·92	25·0	+18·1	+6·70	Angerton Hall..	X.
Mean..	9·9	2·78	28·5	12·7	3·78	.....	...
1899 ...	11·3	2·53	22·6	14·6	3·10	Wallingford ...	II.
Diff. ...	+1·4	— ·25	— 5·9	+ 1·9	— ·68	.....	...

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1899 with similar data for previous years.*

Years.	Number of Returns.	Mean Percentage.	Mean Amount.	Mean Total Fall in year.	Ratio taking 34=100.	Total Fall being assumed =34in. Mean Max. =
			in.	in.		
1865.....	481	5·1	1·70	33	97	5·0 per cent
1866.....	590	3·7	1·48	40	118	4·4 ,,
1867.....	584	4·6	1·44	31	91	4·2 ,,
1868.....	676	4·3	1·43	33	97	4·2 ,,
1869.....	637	4·2	1·42	34	100	4·2 ,,
1870.....	687	4·9	1·30	27	79	3·8 ,,
1871.....	752	4·9	1·49	30	88	4·4 ,,
1872.....	743	— 3·4	1·59	+ 47	+ 138	4·7 ,,
1873.....	809	4·6	1·35	29	85	4·0 ,,
1874.....	1010	4·4	1·41	32	94	4·1 ,,
1875.....	1081	5·0	+1·83	37	109	+5·4 ,,
1876.....	1112	3·9	1·49	38	112	4·4 ,,
1877.....	1180	3·8	1·56	41	121	4·6 ,,
1878.....	1186	4·3	1·49	35	103	4·4 ,,
1879.....	978	4·2	1·52	36	106	4·5 ,,
1880.....	1117	4·8	1·72	36	106	5·1 ,,
1881.....	1194	4·1	1·45	35	103	4·3 ,,
1882.....	1463	3·6	1·42	39	115	4·2 ,,
1883.....	1505	4·0	1·41	35	103	4·1 ,,
1884.....	1691	4·8	1·32	28	82	3·9 ,,
1885.....	1801	4·5	1·41	31	91	4·2 ,,
1886.....	1718	4·6	1·64	35	103	4·8 ,,
1887.....	1921	4·5	—1·14	— 25	— 74	—3·4 ,,
1888.....	1974	4·4	1·41	32	94	4·1 ,,
1889.....	1812	4·8	1·41	29	85	4·1 ,,
1890.....	2081	5·0	1·46	29	85	4·3 ,,
1891.....	2218	4·1	1·47	35	103	4·3 ,,
1892.....	2231	+ 5·4	1·62	30	88	4·8 ,,
1893.....	2267	4·8	1·30	27	79	3·8 ,,
1894.....	2321	4·2	1·46	35	103	4·3 ,,
1895.....	2423	4·5	1·37	30	88	4·0 ,,
1896.....	2465	4·4	1·33	30	88	3·9 ,,
1897.....	2598	4·1	1·36	33	97	4·0 ,,
1898.....	2691	5·0	1·42	28	82	4·2 ,,
Mean ...	1471	4·4	1·46	33	97	4·3 ,,
1899.....	2791	4·7	1·42	30	88	4·2 ,,
Diff.....	+1320	+ ·03	— ·04	— 3	— 9	— ·1 ,,

TABLE VI.—*Max. Falls in each year exceeding* 2·00 *in., and exceeding* 3·00 *in.*

Year.	Total number of records.	Falls of 2·00 in. or more. Number.	Falls of 2·00 in. or more. Per cent. of total No.	Falls of 3·00 in. or more Number.	Falls of 3·00 in. or more Per cent. of total No.
1882	1463	140	9·6	8	0·6
3	1505	170	11·3	23	1·5
4	1691	138	8·2	9	0·5
5	1801	179	10·0	24	1·3
6	1718	158	9·2	44	2·6
7	1921	52	—2·7	4	—0·2
8	1974	374	18·9	34	1·7
9	1812	170	9·4	24	1·3
1890	2081	345	16·6	54	2·6
1	2218	270	12·2	39	1·8
2	2231	470	+21·1	81	+3·6
3	2267	183	8·1	29	1·3
4	2321	313	13·5	36	1·6
5	2423	249	10·3	31	1·3
6	2465	249	10·1	16	0·6
7	2598	275	10·6	62	2·4
1898	2691	373	13·9	72	2·7
Mean	2069	242	11·5	35	1·6
1899	2791	283	10·0	43	1·5
Diff.	+722	+41	—1·5	+8	—·1

DROUGHTS IN 1899.

In discussing this branch of the rainfall of 1899, we have adhered to the definitions adopted when the subject was first dealt with, and which have been proved by experience to illustrate very clearly the features of the year under consideration.

Absolute Droughts.—Periods of *more than* 14 consecutive days without measurable rain.

Partial Droughts.—Periods of *more than* 28 consecutive days, the aggregate rainfall of which does not exceed 0·01 in. per diem.

We have also, as far as possible, avoided changes in the Stations for which the records are tabulated; but in the three cases in which change was unavoidable, stations have been selected in near proximity, and with similar average rainfall.

Anyone who has read the Observers' remarks, on preceding pages of the volume, must have been struck by the frequency with which both absolute and partial droughts are mentioned, and this is fully borne out by this more systematic examination of the subject.

The following table summarises the records of drought given by the 50 representative stations for the past twelve years :—

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts.	Duration.		Stations without one.	No. of Droughts.	Duration.		Stations without one.
		Average.	Greatest.			Average.	Greatest.	
		days.	days.			days.	days.	
1888	17	17	20	35	4	42	50	46
1889	42	21	30	13	38	34	45	15
1890	13	18	20	39	3	30	31	47
1891	26	18	34	28	38	36	49	14
1892	36	16	20	25	17	35	64	33
1893	39	20	44	23	53	51	114	10
1894	52	18	31	10	44	37	62	13
1895	52	19	29	16	47	39	64	19
1896	27	18	26	25	49	40	75	16
1897	20	18	20	31	7	40	61	44
1898	31	17	28	27	31	38	77	26
Mean	32	18	27	25	30	38	63	26
1899	60	21	31	10	41	35	48	20
Diff.	+28	+3	+4	−15	+11	−3	−15	−6

This is very striking—taking the absolute droughts first, we find that the total number recorded at the 50 stations is nearly double the average, and is unprecedented in the preceding 11 years. The average duration is three days above the mean, has only once been equalled, and has never been exceeded.

The greatest duration, though above the average, is in no way remarkable. The number of stations at which no absolute drought was recorded is only two-fifths of the average, and only one other year shows as small a number. The general conclusion to be drawn is that absolute droughts occurred with unusual frequency at dry stations, and that they were also recorded at wet stations where they do not usually occur. In other words, the year was marked by longer *rainless* periods than usual over all parts of the Kingdoms.

The summary of partial droughts confirms this very fully, for it shows a total number much above the average, but of shorter duration, while the longest is quite insignificant. On the other hand, the number of stations at which no partial drought was recorded is well below the average, though not remarkably small. If our progenitors had hailed from the sister isle, instead of from the north country, we might sum up by saying that there were no partial droughts, but only absolute droughts, with a few showery days at the ends of them.

The chief periods of drought were—

(1.) From about the middle of February to early in March, or as a partial drought extending into the third week of that month. Out of the 50 stations, six recorded this as an absolute drought, and 15 as a partial drought.

(2.) From the fourth week of May to about the middle of June. This yielded absolute drought at 37 stations, and partial drought at only four stations.

(3.) From the middle, or latter part of July, to the third or fourth week in August. This was the most marked instance of partial drought during the year (though the duration was not great), for it yielded absolute drought at only seven out of the 50 stations, while partial drought occurred at 20 stations.

(4.) From November 12th to the end of the month. Although this was recorded as an absolute drought at only eight of the selected stations, it was by far the most remarkable drought of the year, due consideration being given to the time of its occurrence. Over a

large part of England the second half of November was practically rainless.

The drought of the second half of February and beginning of March, was recorded either as an absolute or as a partial drought at nearly all stations S.E. of a line running from Hull to Plymouth, and along the eastern side of Britain as far N. as Melrose; at Cargen, near Dumfries, and at stations in the E. and N.E. of Ireland.

The drought of May and June extended either as absolute or partial to all stations in England and Wales, and in the S.E. of Scotland; to Ireland excepting the W. and S.W. Stations in the W., N.W., N. and N.E. of Scotland also escaped it.

The drought of July and August occurred in the S. and S.W. of Ireland, on the E. coast of Scotland, and the E. coast of England as far S. as the Tees. It was general over England and Wales S. of the Humber, excepting a broad belt of country, 50 to 75 miles wide, stretching from, say, Haverfordwest to the Bedford level.

The absolute drought of the second half of November was very irregularly distributed, but occurred at stations in the S. of England from Torquay to London, at one station in Derbyshire, and at two on the S.E. coast of Ireland; but, as before mentioned, the second half of the month was practically rainless over a large part of England.

Out of the 50 stations, there are only six at which no absolute or partial drought was recorded. One in the west of Ireland, and five in the west and north of Scotland. The stations in the west of Scotland being ones at which it is practically impossible for anything deserving the name of drought to occur.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES.			Days			Days	in.
London (Camden Square), N.W..	Feb. 16	Mar. 3	16	Feb. 16	Mar. 29	42	·36
Middlesex.	May 25	June 17	24	July 23	Aug. 30	39	·27
	Nov. 12	Nov. 30	19				
Dorking (Abinger Hall)	May 25	June 17	24	Feb. 16	Mar. 20	33	·32
Surrey.	July 27	Aug. 26	31	July 21	Aug. 27	38	·36
	Nov. 16	Nov. 30	15				
Hythe.....	May 28	June 17	21	July 24	Aug. 28	36	·35
Kent.							
Welwyn (Datchworth Rectory)..	May 25	June 17	24	None			
Herts.	Nov. 12	Nov. 30	19				
Maxey Vic. [Market Deeping] ...	May 27	June 17	22	Feb. 16	Mar. 26	39	·37
Northampton.							
Geldeston [Beccles]	May 28	June 17	21	Feb. 16	Mar. 18	31	·22
Norfolk.	July 4	July 21	18	July 24	Aug. 29	37	·37
	July 27	Aug. 14	19				
Calne (High Street)	Feb. 16	Mar. 3	16	Feb. 16	Mar. 24	37	·24
Wilts.	May 25	June 17	24				
Torquay (Cary Green).....	Feb. 20	Mar. 6	15	July 2	Aug. 2	32	·28
Devon.	May 26	June 17	23				
	Aug. 8	Aug. 26	19				
	Nov. 12	Nov. 30	19				
Bideford (Northam Vicarage) ...	May 27	June 16	21	None			
Devon.	July 12	Aug. 3	23				
St. Austell (Trevarna).....	May 27	June 16	21	None			
Cornwall.							
Ilminster (White Lackington) ...	Feb. 16	Mar. 6	19	Feb. 16	Mar. 24	37	·14
Somerset.	Nov. 12	Nov. 30	19	Nov. 11	Dec. 10	30	·29
Ross (The Graig)	Feb. 17	Mar. 3	15	None			
Hereford.							
Weston Park [Shifnal]	May 28	June 17	21	Feb. 16	Mar. 24	37	·36
Stafford.				July 27	Aug. 27	32	·32
Kenilworth (The Spring)	May 25	June 17	24	Feb. 16	Mar. 19	32	·31
Warwick.							
Worksop (Hodsock Priory)	May 25	June 17	24	Feb. 16	Mar. 20	33	·26
Notts.				July 23	Aug. 28	37	·36
Belper (Quarry Bank).....	May 26	June 17	23	July 23	Aug. 26	35	·31
Derby.	Nov. 12	Nov. 30	19				

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
St. Michael's-on-Wyre Vic. ..... *Lancashire.*	May 26	June 17	23	None			
Knaresboro' (Farnham) ..... *York, W.R.*	May 25	June 17	24	Feb. 14	Mar. 24	39	·38
				July 23	Aug. 26	35	·34
Driffield (Beverley Road) ..... *York, E.R.*	May 27	June 17	22	July 13	Aug. 26	45	·22
Darlington (Hurworth Grange)... *Durham.*	May 25	June 17	24	Feb. 14	Mar. 21	36	·33
				July 23	Aug. 26	35	·31
Morpeth (Bothalhaugh Garden)... *Northumberland.*	May 26	June 17	23	Feb. 19	Mar. 19	29	·28
				July 24	Aug. 26	34	·30
Pawston [Coldstream]..... *Northumberland.*	June 2	June 17	16	Feb. 19	Mar. 20	30	·29
Whitehaven (Irish Street) ..... *Cumberland*	May 25	June 16	23	None			
Chepstow (Shirenewton Hall) ... *Monmouth*	May 31	June 17	18	None			
Haverfordwest (High Street) ... *Pembroke.*	May 27	June 16	21	None			
	Aug. 8	Aug. 23	16				
Churchstoke (Mellington Hall)... *Montgomery.*	May 26	June 17	23	July 12	Aug. 28	48	·26
Denbigh (Garn)..... ..... *Denbigh.*	May 25	June 17	24	July 23	Aug. 28	37	·28
Lligwy ..... *Anglesea.*	May 24	June 18	26	July 20	Aug. 17	29	·16
	July 20	Aug. 3	15				
SCOTLAND.							
Garliestown (Galloway House)... *Wigton.*	May 25	June 16	23	None			
Cargen [Dumfries] ..... *Kirkcudbright.*	Feb. 19	Mar. 5	15	None			
	May 24	June 17	25				
Melrose Asylum .... *Roxburgh.*	None			May 20	June 17	29	·27
Edinburgh (Blacket Place)..... *Edinburgh.*	Mar. 9	Mar. 23	15	May 21	June 19	30	·21
	May 24	June 17	25	July 21	Aug. 26	37	·35
Maybole (Sauchrie)..... *Ayr.*	None			None			

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
Buchlyvie (The Manse) ..... *Stirling.*	None			May 20	June 17	29	·29
Strontian (Laudale)..... *Argyll.*	None			None			
Islay (Eallabus) ..... *Argyll.*	None			None			
Kirriemuir (Lintrathen)... ..... *Forfar.*	None			May 25 July 20	June 23 Aug. 27	30 39	·27 ·35
Cromar (Logie Coldstone Manse) *Aberdeen.*	Aug. 3	Aug. 18	16	July 24	Aug. 28	36	·35
Alness (Ardross Castle) ..... *Ross.*	None			None			
Golspie (Dunrobin Castle) ..... *Sutherland.*	None			None			
IRELAND.							
Dunmanway (Coolkelure) ..... *Cork.*	May 26	June 16	22	July 23	Aug. 23	32	·21
Killarney (Woodlawn) ..... *Kerry.*	None			July 23	Aug. 23	32	·24
Clonmel (Bruce Villa) ..... *Tipperary.*	May 25	June 16	23	None			
Enniscorthy (Ballyhyland)..... *Wexford.*	May 26 Nov. 15	June 16 Nov. 29	22 15	July 21	Aug. 24	35	·35
Bray (Fassaroe)..... *Wicklow.*	May 25 Nov. 15	June 16 Nov. 29	23 15	Feb. 21	Mar. 24	32	·31
Athlone (Twyford) ..... *Westmeath.*	May 26	June 16	22	None			
Ballinasloe..... ..... *Galway.*	None			None			
Collooney (Markree Observatory) *Sligo.*	June 2	June 16	15	None			
Belfast (Springfield) ..... *Antrim.*	May 25	June 16	23	Feb. 21	Mar. 24	32	·29
Stewartstown (The Square) ..... *Tyrone.*	May 25	June 16	23	None			

MONTHLY RAINFALL OF 1899.

A considerable amount of our space is devoted to a study of the distribution of the rainfall in the different months of the year. First come the Remarks, in which some thousands of Observers, distributed over the country, describe the general character of the fall, and what they consider the most important and interesting phenomena. Then, in this section, we give the numerical values in considerable detail, and illustrate by the aid of maps as clearly as we are able the general features of the fall in each month, over the three kingdoms. The tables of monthly rainfall at 232 stations, provide a storehouse of information to which anyone can turn for special purposes; and on them, on the maps, and on the impressions derived in six months devoted entirely to the study of the rainfall of the year, from almost every point of view, we base our brief descriptions.

Notes on the Months.

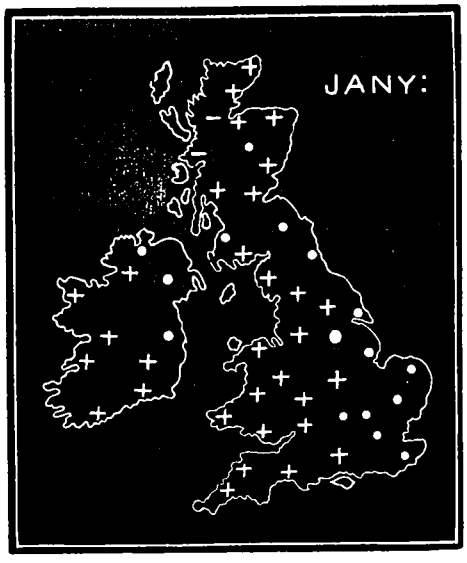
The numerical values in the following brief summaries are based mainly on the records from which the maps are drawn. These records have been selected with care, and are believed to be thoroughly representative; but it must not be supposed that they will be always perfectly accordant with neighbouring stations, more especially in the summer months, when there is great variation due to thunderstorm rains.

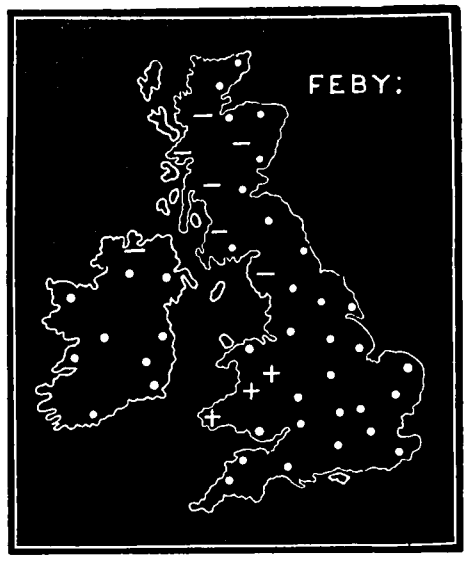
JANUARY.

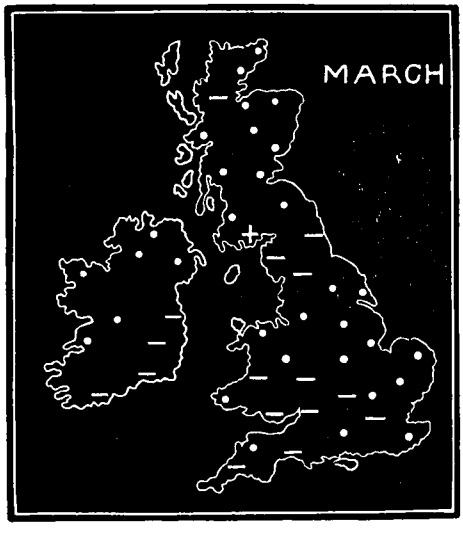
A wet month almost all over the United Kingdoms, excepting the N.W. of Scotland, where the two minus signs appear on the map, but at these stations the rainfall is considerable, a deficiency of an inch is not a great one, and the month's total is more than three-quarters of the average.

Over England the excess increased from E. to W. At stations E. of Lon. 0° the fall was less than 50 per cent. in excess. From 0° to 3° W. the percentage increases from 150 per cent. to 200 per cent., and still further W.—that is in Devon and Cornwall—more

MAPS OF MONTHLY RAINFALL, 1899.





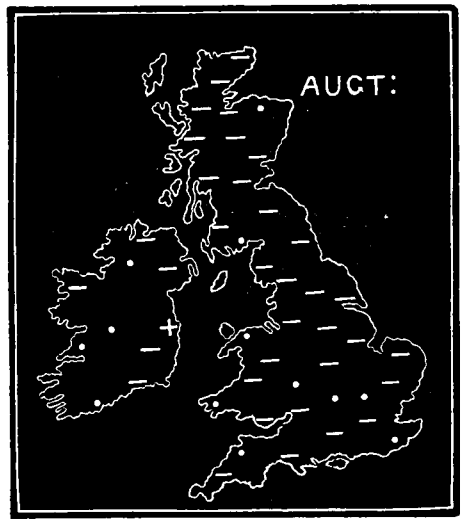


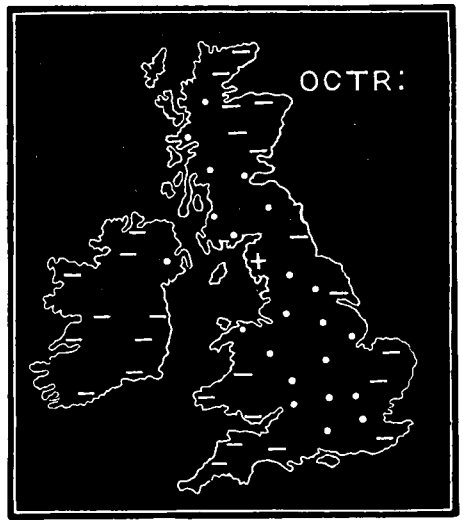
• Within an inch of average.

\+ More than 1 in. above average.

− ,, ,, ,, below ,,

MAPS OF MONTHLY RAINFALL, 1899.





\- Within an inch of average.

\+ More than 1 in. above average.

\- ,, ,, ,, below ,,

Between pp. [144] *&* [145].

than twice the average fell. The mean for the English stations is 165 per cent. Over Wales the fall was fairly uniform at twice the average. It will be remembered that a heavy R, on January 20th, produced the maximum fall at a large number of stations in S.W. England, and in Wales, that area corresponding to a considerable extent with that in which the month was wettest.

The Scotch stations give an average excess of 50 per cent. E. of Lon. 4° W. the fall varied from one and a half times, to twice the average.

Over Ireland the fall was, say, 125 per cent. of the average in the northern half, and 160 per cent. in the southern half.

FEBRUARY.

Taking the kingdoms as a whole, this was an average month. A slight excess in Wales, and the S.W. and S. of England, being balanced by a deficiency in the E. and N. This latter area partly coincides with that in which the drought of February and March was most marked. Over Ireland, also, the variations from the average are slight and counterbalance each other. Over the N.W. half of Scotland the fall was little more than half the normal, and that country as a whole shows a deficiency of about 25 per cent.

MARCH.

For Scotland, a normal fall calling for no special comment. For Ireland, three-fourths of the average—less S.E. of a line joining Galway and Belfast, and more N.W. of it. Over Wales, two-thirds of the average. Over England, little more than half; and less than half over considerable portions of Bucks, Oxford, Gloucester and Worcester.

APRIL.

A month which gave for the three kingdoms almost exactly one and a half times the average R. Over England, one and a third; and over Wales and Scotland, one and two-thirds. Over the great mass of central England the fall was little in excess; but in the extreme N., the extreme S.E., and the extreme S.W., was nearly 75 per cent. above average. Over Scotland the dots may be taken to represent a fall ranging from average to 150 per cent., and the pluses of 175 per cent., except the three nearest to Moray and Dornoch Firths, where the falls were more than double the normal.

MAY.

A month of variable rainfall difficult to describe. Less than the average R over southern England, but a considerable excess in the S.W. and in the N.E., stations in Yorkshire and Northumberland having more than double the average, and the mean for the whole country being about 25 per cent. in excess. Over Wales, a uniformly normal fall. Scotland, with a similar excess to England for the country as a whole, shows half the average on the W. coast and twice the average on the E. coast, the deficiencies and excesses being divided by the meridian of 4° W. The excesses are greatest in the E. and S., the plus signs showing excesses varying from 50 per cent. to 100 per cent.

The Irish stations give a mean one-third above the average; over the centre of the country the fall was normal, but along the south coast there was an excess of 75 per cent., while in the N. the fall varied from one and a half times, to twice the average. The drought of May and June shows little controlling effect on the rainfall of this month, or on its distribution.

JUNE.

Over central England only half the average R fell, and the country as a whole had two-thirds of the average; while over Wales the deficiency was generally trifling, as it was also in Scotland, speaking of the country as a whole, but along the east coast the fall was normal or slightly in excess, while there was a considerable deficiency in the west, north and centre. The Irish stations, as a rule, show a trifling excess, but the plus sign represents a fall about 50 per cent. in excess. For this month there is a general accordance between the areas of deficiency, and the districts over which the drought of May and June extended.

JULY.

Though thunderstorms produced the maximum fall at a good many stations in July, the month over the country generally was very dry. Cornwall, Devon, Somerset, Wilts, Gloucester, Hampshire and Oxford appear to have had only a quarter of the average, while in the Eastern Counties the fall was normal, but here the thunderstorm rains of the 22nd and 23rd were heaviest. Over the remainder of England and Wales about half the average fell;

the mean for those countries as a whole being rather less than half. For Scotland the three minus signs represent from half to three-quarters of the average, while for the rest of the kingdom slight excesses and deficiencies balance each other. Ireland, as a whole, had three-quarters of the average. W. of a line running from Cork to Londonderry, the fall was less than half, and E. of that line more than half, with excesses at Carlow and Dublin.

AUGUST.

Another month which was dry in spite of thunderstorms, but, after all, the storms yielded large amounts at only some 150 stations, which is a very small proportion of 3,000.

For Scotland, every minus sign on the map represents a fall of half the average or less, while the two dots represent falls between one half and the average; the country, as a whole, recording just 50 per cent. Over Ireland the amounts were irregular, but curiously enough every station where the — appears had half the average; the dots represent a normal fall, while Dublin had an excess of 50 per cent., evidently due to the TS on August 5th. England had rather less than half the normal fall, and Wales two-thirds, but with a total made up of summer showers and local thunderstorms little regularity can be expected. For 100 miles inland, along the E. coast from Northumberland to Norfolk, the fall was about one-third of the average. The drought of July and August seems to bear little relation to the total fall in those months.

JUNE, JULY AND AUGUST.

The definitions adopted in *British Rainfall* for "Absolute" and "Partial" droughts have, we think, thoroughly answered their purpose for the phenomena which they were intended to illustrate—namely, comparatively short periods first without measurable rain, and second without enough rain to have any material effect on vegetation.

But there is another class of droughts, for which no definition has as yet been generally adopted. That is, the prolonged period, which, though it may include considerable falls of rain, of great benefit to vegetation and temporarily sufficient for all purposes, has yet a constant deficiency, resulting in lowering of the underground water level, failure of wells and streams, and increasing damage to

vegetation. That such a period occurred in 1899 is very clear from the Observers' remarks, and we think that a brief discussion of the rainfall of the three summer months will throw much light on the subject.

Rainfall of the three months, June to August, expressed as a percentage of the average :—

British Isles	66	per cent.	of the average.
England	53	,,	,,
Wales	66	,,	,,
Scotland	72	,,	,,
Ireland	87	,,	,,

Here we have for three consecutive months, for the United Kingdoms, only two-thirds of the average rain ; for England, little more than half the average ; for Wales, two-thirds ; and for Scotland, three-quarters of the average. For Ireland the deficiency of one-eighth is probably not material.

At the following stations, the fall for the three months did not exceed half the average :—

Sherborne St. John	*Hampshire*	32	per cent.
Addington	*Bucks*	46	,,
Beaminster	*Dorset*	46	,,
Polapit Tamar	*Devon*	42	,,
Bideford	,, ...	49	,,
Stroud	*Gloucester*	47	,,
Thornton Reservoir	*Leicester*	43	,,
Boston	*Lincoln*	45	,,
Hesley Hall	*Notts*	50	,,
Ribston	*Yorks*	47	,,
Arncliffe	,, ...	50	,,
Hull	,, ...	50	,,
Seathwaite	*Cumberland*	48	,,
Cardiff	*Glamorgan*	39	,,

The distribution of these stations is rather irregular, but they cover the S.W. and S. of England and extend through the centre of the country up to the N.E. and N. The table shows a very grave failure of the natural water supply over large districts of England, and we think illustrates very clearly one of the main features of the rainfall of 1899.

SEPTEMBER.

Thunderstorms produced the max. fall at many stations in September, and the totals for the month are very irregular. Over England and Wales, as a whole, the fall was an average one, but there was a large area of deficiency, stretching across the country

from Dorsetshire to the Wash; while, on the other hand, there was an excess of about 50 per cent. over N. Wales, Lancashire, and the western half of Yorkshire. Over the southern half of Scotland, the fall was generally near the normal, but in the northern half the excess increases northward, from about 50 per cent. in the latitude of Dundee to double the average in the north of the kingdom. The country, as a whole, shows an excess of 50 per cent.

Along the southern coast of Ireland the fall was less than half the average; in the N. and E. there was a considerable excess, while in the west the fall was normal. The deficiency in the S. about balanced the excess in the N. and E., resulting in an average value for the whole Kingdom.

OCTOBER.

Ireland was the driest of the three kingdoms, with only two-thirds of the average R—less over the greater part of the country, but rather more in Down, Mayo and Clare. Scotland had a normal fall over the western half, and a deficiency in the eastern half—amounting to 50 per cent. or more in Forfar, Aberdeen, Banff, Elgin and Nairn. England shows a general deficiency—not great in amount—along the whole of the eastern coast, and in the south-western counties; Wales, a corresponding deficiency in the southern half.

NOVEMBER.

A very abnormal winter month, its characteristics being a drought; a very wet week; three wet days yielding the max. fall at nearly 600 stations; and a total fall ranging from half the average, to one and a half times the average.

Scotland, as a whole, had a normal fall, the only departures worthy of mention being excesses in the neighbourhood of Balmoral, and of Dumfries, and deficiencies in the regions adjoining Kinnaird Head and Dunnet Head. Ireland, generally, had about four-fifths of the average rainfall, but the deficiency was greater at Cork—one half—and at Dublin and Londonderry—one quarter. Wales had three-quarters of the average—less in the S. and more in the N. England, as a whole, had a deficiency of about one-eighth, but the rain was irregularly distributed. The part of the kingdom included between lines joining Lancaster and Hull, and Hereford and the Wash, had about half the average; over the rest of the country the deficiencies were irregular and generally slight, while excesses

occurred where the plus signs appear on the map. The description of this month would be incomplete without further reference to the very heavy rains of the first week, in the South of England; and the table on p. [151] of stations, at which the fall exceeded five inches, needs no comment. It is worthy of note that the region of these heavy rains overlaps that at which the November drought was recorded.

DECEMBER.

A very wet month in Ireland, the country as a whole showing an excess of 60 per cent. Along the S. coast the fall was nearly two and a half times the average, the heavy rains of the 13th and 28th contributing largely to this. Over nearly all the remainder of the kingdom not much less than one and a half times the average fell.

The following totals for the month, of more than seven inches, are very remarkable.

	in.		in.
Glen Barrabane	9·09	Gap of Dunloe	15·00
Coolkelure	16·36	Killarney, Woodlawn	9·72
Ardnacarrig	14·03	Knockaderry	14·37
Roche's Point	12·91	Waterford, Brook Lodge	8·64
Cork, Passage West	12·45	,, Cove Lodge	8·05
,, Villa Franca	13·77	,, ,, ,, M.	8·35
,, Queen's College	16·11	,, Tycor	8·50
,, The Palace	14·75	Portlaw, Curraghmore	11·64
,, Wellesley Terrace	13·72	Glenam [Clonmel]	9·62
,, St. Anne's Hill	11·68	Clonmel, Bruce Villa	8·49
Mallow, Summer Hill	10·50	Cahir, Duneske	7·03
,, Longueville	10·16	,, Abbey	7·20
,, ,,	11·03	Foynes	7·19
Doneraile	9·38	Carrigaholt Castle	7·33
Waterville	12·74	Inagh, Mount Callan	7·58
Kenmare, Derreen	16·95	Rockenham [Waterford]	8·92
Valencia, Glanleam	12·47	Inistioge, Woodstock	7·99
Cahirciveen	11·36	Laragh, Glendalough	8·41

Scotland with, as a whole, an excess of only 20 per cent., had more than double the average at Dundee and Keith, and an excess of 75 per cent. at Nairn, while at western stations less than two-thirds of the average fell.

Over England and Wales, as a whole, the month yielded little less than the normal total. Over the western half of England, N. of Shrewsbury, there was a deficiency of about 25 per cent., and a similar deficiency occurred in the region between Salisbury and Ipswich. In the eastern half of the country, north of Lincoln, there was an excess, generally considerable.

Daily Rainfall, November 1st to 9th, 1899.

County.	STATIONS.	1st.	2nd.	3rd.	4th.	5th.	6th.	7th.	8th.	9th.	First seven days.	Total for the Month.
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
SURREY.	Haslemere (Lower Street)	·10	·57	2·22	·71	1·79	—	·84	—	·80	6·23	7·14
	,, (Hazelhurst)	·09	·63	2·11	·78	1·45	·04	·78	·03	·81	5·88	6·84
	Chiddingfold	·05	·43	1·62	·59	1·67	·01	·81	—	·76	5·18	5·98
	Ewhurst (Coneyhurst)	·14	·41	1·66	·54	1·63	·01	·63	·01	·68	5·02	5·76
	Wonersh (Shamley Green)	·11	·29	1·78	·54	1·59	—	·72	—	·65	5·03	5·68
	Brockham (North Lodge)	·03	·50	1·60	·50	1·56	·10	·80	—	·62	5·09	5·71
	Dorking (High Ashurst)	·03	·63	1·46	·70	1·48	—	·74	—	·62	5·04	5·73
	Upper Gatton	·18	·39	1·78	·52	1·44	·01	·70	—	·57	5·02	5·66
SUSSEX.	West Thorney	·30	·43	1·32	·48	1·67	—	·81	·07	·81	5·01	5·89
	Steyning	·16	·41	·73	·32	2·15	—	1·46	·05	·98	5·23	6·29
	Petworth Park	·13	·32	1·79	·47	1·88	—	1·10	·04	·76	5·69	6·60
	Midhurst (St. Ann's)	·09	·49	2·05	·40	1·54	—	·82	—	·73	5·39	6·17
	,, (Borden Wood)	·13	·49	1·79	·67	1·34	—	·89	·03	·69	5·31	6·08
	Pyecombe	·06	·75	·65	·36	2·08	·01	1·16	·06	·85	5·07	6·09
	Clayton Rectory	·04	·76	·70	·35	2·39	—	1·29	·05	·93	5·53	6·54
	Hurstpierpoint (Danny Park)	—	·96	·86	·69	2·52	—	1·54	·02	1·02	6·57	7·61
	,, (The College)	—	·86	·50	·41	2·23	·05	1·30	·04	·57	5·35	5·97
	Burgess Hill (Silverdale Road)	·06	·76	·57	·42	2·19	—	1·36	·05	·56	5·36	6·00
	Balcombe Place	·07	·56	·78	·55	1·80	·02	1·29	·04	·72	5·07	5·89
	Crawley Down (The Grange)	·11	·51	·91	·61	1·91	—	1·16	·02	·64	5·21	5·94
	Worth (South Hill)	·14	·46	·92	·55	1·94	·06	1·18	·05	·71	5·25	6·04
HAMPSHIRE.	Ryde	·11	·51	1·78	·47	1·72	—	1·24	·11	1·24	5·83	7·17
	Southampton (Netley)	·09	·43	1·92	·56	1·50	—	·72	·05	·91	5·22	6·25
	Horndean (Blendworth Lodge)	·13	·44	1·70	·63	1·53	—	·61	·04	·95	5·04	6·09
	Hambledon (Rosecroft)	·11	·46	1·94	·67	1·49	—	·70	·02	·78	5·37	6·24
	Droxford (Fir Hill)	·07	·44	2·05	·65	1·36	—	·59	·02	·62	5·16	5·82
	Petersfield (Fairley)	·15	·48	2·14	·83	1·52	—	·82	·01	·77	5·94	6·77
	East Lyss (Newlands)	·14	·41	1·95	·86	1·36	—	·83	—	·69	5·55	6·30
	Alresford (Hinton Ampner)	·07	·66	1·86	·76	1·24	·01	·60	—	·62	5·20	5·87
	Grayshott [Hindhead]	·09	·46	1·80	·78	1·40	—	·69	·02	·66	5·22	5·96

MONTHLY RAINFALL AT 232 STATIONS IN THE BRITISH ISLES DURING 1899.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	Middlesex	London (Camden Square) ...	2·52	2·00	·50	2·64	1·38	1·49	1·45	·70	2·65	2·03	4·13	1·05	22·54
,,	,, ...	Harrow	2·34	2·12	·56	2·38	1·40	1·92	1·79	·58	2·68	2·28	4·08	1·29	23·42
II.	Surrey	Guildford (Epsom Road).....	2·96	2·75	·82	2·52	1·50	1·23	1·65	·54	2·86	2·73	4·75	1·59	25·90
,,	Kent	Tenterden .....*Snowdon*	2·10	2·51	·82	2·91	1·72	1·48	1·42	1·09	2·39	2·33	3·18	2·22	24·17
,,	,, ...	Hythe	2·29	1·87	1·02	2·98	2·14	1·59	·74	·79	2·79	1·76	2·30	2·14	22·41
,,	,, ...	Sevenoaks (Riverhead Vic.)	3·08	1·98	·96	2·40	·96	1·36	2·45	1·00	2·81	2·18	5·02	1·28	25·48
,,	,, ...	Ospringe (Lorenden)	2·43	2·18	·88	3·06	1·86	1·14	1·20	·79	2·89	2·82	3·55	2·22	25·02
,,	Sussex	Arundel (Patching)	3·14	3·08	·90	2·47	1·15	1·35	1·57	·32	3·58	2·27	5·32	1·72	26·87
,,	,, ...	Maresfield (Forest Lodge) ..	3·10	3·20	·95	2·92	1·56	1·62	1·11	·98	3·05	1·90	4·72	1·89	27·00
,,	Hants	I. of Wight (Sandown).....	4·28	4·16	·99	2·99	1·63	1·36	·64	·52	3·88	2·77	5·66	1·91	30·79
,,	,, ...	Bps. Waltham (Swanmore Ho.)	3·56	3·02	·27	2·56	1·22	1·86	·56	1·77	2·39	2·38	5·49	1·72	26·80
,,	,, ...	Basingstoke(Sherborne S.J.)	3·72	3·24	1·00	2·84	1·49	1·16	·48	·48	1·81	2·64	4·32	1·66	24·84
,,	Berks	Newbury (Welford Park)*o.g.*	4·33	3·11	·72	3·16	2·43	1·94	·29	1·25	2·56	2·48	3·31	1·87	27·45
III.	Herts	Hertford (Bayfordbury).....	2·45	1·89	·71	2·37	2·37	2·11	1·59	·48	1·91	2·06	3·45	1·54	22·93
,,	,, ...	Royston, Therfield Rectory..	2·05	1·45	·67	2·82	1·74	1·44	1·78	·81	1·97	2·26	3·22	1·57	21·78
,,	Bucks	Buckingham (Adstock)	2·42	1·79	·67	1·94	2·37	·97	1·43	1·23	1·99	2·08	2·42	1·44	20·75
,,	Oxford	Henley (Northfield House)..	2·83	2·54	·78	2·60	1·55	1·08	1·55	·97	2·40	2·00	3·49	1·36	23·15
,,	,, ...	Oxford (Magdalen Coll.) ...	2·59	1·82	·25	1·83	1·28	·95	1·18	2·02	2·18	2·69	2·44	1·21	20·44
,,	Northampton ...	Wellingborough(Swanspool)	2·66	1·86	·99	1·60	1·66	1·03	1·61	1·76	2·35	2·20	1·90	1·40	21·02
,,	Bedford	Bedford (The Grove)	2·17	1·24	·82	1·79	1·83	1·21	1·27	·83	1·79	2·78	2·11	1·06	18·90
,,	Cambridge	Ely (Stretham)	1·67	·75	·65	1·57	1·33	·82	1·77	1·06	2·13	2·35	2·15	1·02	17·27
,,	,, ...	Wisbech (Bank House).....	2·09	1·12	·66	1·64	2·15	1·60	1·95	1·15	4·66	2·83	1·93	1·34	23·12
IV.	Essex	Loughton (High Beech) ...	2·18	1·82	·56	2·39	1·05	1·32	1·63	·61	2·78	2·30	4·22	1·32	22·18
,,	,, ...	Chelmsford (High Street)...	1·93	1·59	·85	2·26	1·39	1·70	3·21	1·19	2·55	2·11	3·27	1·42	23·47
,,	,, ...	Braintree (Bocking Place)..	2·20	1·51	1·07	2·16	1·75	1·23	3·89	·61	2·29	1·85	3·24	1·50	23·30
,,	Suffolk	Ipswich (Bishop's Hill).....	1·91	1·24	1·00	2·28	1·72	1·41	1·70	·25	2·85	1·75	2·85	1·33	20·29
,,	,, ...	Haverhill (Great Thurlow).	1·91	1·23	·87	2·17	1·87	1·38	3·07	1·28	2·69	1·84	3·35	1·66	23·32
,,	,, ...	Aldborough (Aldringham Ho.)	1·90	1·32	·95	2·10	2·25	1·56	2·68	·14	2·46	1·60	2·48	1·81	21·25
,,	Norfolk	Geldeston [Beccles]	2·18	1·01	1·42	2·78	2·21	·89	2·82	·78	3·13	1·83	2·62	1·73	23·40
,,	,, ...	Swaffham.....	2·06	·98	1·16	2·41	1·57	·91	1·89	2·03	4·95	1·99	2·27	1·66	23·88
,,	,, ...	Holt (Field Dalling)...	2·01	1·05	1·99	2·08	2·39	·51	1·62	1·29	3·67	1·83	1·74	1·72	21·90

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Salisbury (Alderbury)	3·38	3·39	·85	2·77	1·81	2·33	·37	1·84	2·09	3·04	3·47	1·49	26·83
,,	,,	Trowbridge (W.W. Biss)..	6·06	3·86	1·01	3·71	3·16	1·98	2·08	1·25	3·04	2·22	4·19	2·74	35·30
,,	,,	Marlborough (Mildenhall).	4·25	3·10	·65	3·25	2·21	2·13	·79	1·17	2·44	2·61	3·38	1·81	27·79
,,	Dorset	Beaminster Vic.	5·96	3·92	·58	3·19	1·37	1·51	·75	1·46	2·00	2·56	4·93	3·94	32·17
,,	,,	Wimborne (Chalbury)	3·86	3·27	·73	2·95	1·34	1·21	·24	·90	3·03	2·36	4·32	1·75	25·96
,,	,,	Hazelbury Bryan Rectory.	5·93	5·58	·65	3·05	1·54	1·19	1·25	1·37	2·11	2·90	5·73	3·69	34·99
,,	Devon	Torquay (Watcombe Park)	5·74	5·68	·67	3·39	2·23	1·29	1·45	2·99	2·29	2·11	4·62	5·01	37·47
,,	,,	Walkhampton (Lowery)	8·25	4·78	1·43	4·65	3·85	1·76	1·71	1·55	2·96	4·98	4·94	3·81	44·67
,,	,,	Exeter (Manston Terrace)	4·99	4·78	·43	2·58	2·44	1·01	1·76	2·27	1·94	2·03	2·88	4·51	31·62
,,	,,	Cullompton	5·84	4·59	·53	3·65	2·81	1·90	2·39	2·26	2·30	2·24	3·37	5·12	37·00
,,	,,	South Molton (East Street)	7·37	3·04	1·34	3·98	3·58	1·67	·31	2·35	3·46	4·90	3·92	4·31	40·23
,,	Cornwall	Penzance (Penlee)	5·56	3·92	1·15	3·07	2·33	1·57	1·01	2·00	3·09	3·16	3·11	6·03	36·00
,,	,,	St. Agnes	5·82	3·98	1·75	2·12	2·05	1·26	·82	1·53	2·98	3·64	3·17	3·65	32·77
,,	,,	Bude	5·21	2·29	1·08	2·94	1·07	·85	·58	1·06	3·11	4·18	2·99	3·14	28·50
,,	Somerset	Ilminster (White Lackington)	5·02	4·06	·57	2·63	1·79	·72	·82	1·45	2·96	2·47	4·23	3·53	30·25
,,	,,	Glastonbury (Street)	3·70	3·00	·38	2·55	1·39	·94	·49	1·10	2·86	2·13	3·01	2·52	24·07
,,	,,	Minehead	5·91	3·88	1·30	3·55	2·24	·83	·47	1·82	2·93	3·89	3·16	3·98	33·96
VI.	Gloucester	Clifton (Pembroke Road)	5·17	3·91	1·17	3·46	2·27	1·54	·68	1·44	3·79	3·69	3·12	3·41	33·65
,,	,,	Stroud (Upfield)	3·93	3·18	·89	1·85	2·75	1·80	1·03	·94	1·47	2·30	2·63	2·43	25·20
,,	,,	Fairford (Hatherop Rec.)	3·87	3·62	·66	1·87	1·46	1·93	1·23	1·11	2·01	3·07	2·78	2·77	26·38
,,	,,	Moreton-in-Marsh (Longboro')	4·24	3·13	·58	2·76	2·12	1·65	1·57	1·35	2·20	2·52	2·99	2·75	27·86
,,	Hereford	Ross (The Graig)	3·88	2·77	·63	2·13	2·23	2·04	·49	1·06	2·34	2·95	2·30	2·62	25·44
,,	,,	Leominster (Farm)	4·26	2·85	·71	2·64	1·83	2·21	1·47	·76	2·34	2·76	2·03	2·57	26·43
,,	Salop	Ch. Stretton (Woolstaston)	4·27	3·54	1·38	2·96	2·01	2·32	1·29	1·26	2·55	3·30	1·67	2·10	28·65
,,	,,	Much Wenlock (Willey Pk.)	3·49	2·95	·91	2·26	2·33	3·17	1·57	·80	1·97	2·89	2·06	2·15	26·55
,,	,,	Ellesmere (Oteley)	4·18	2·19	·75	2·21	3·91	2·56	1·91	·65	2·77	3·44	1·72	2·43	28·72
,,	Stafford	Penkridge (Rodbaston)	3·81	2·21	1·01	2·79	1·67	2·73	1·66	2·26	4·45	2·94	1·75	2·40	29·68
,,	,,	Burton (Shobnall)	2·55	1·39	·87	2·47	3·32	1·88	1·25	1·08	2·58	2·94	1·43	2·36	24·12
,,	,,	Etruria	3·61	1·49	1·35	2·39	1·59	1·81	3·03	1·31	3·69	3·35	·88	1·71	26·21
,,	Worcester	Malvern (Madresfield Rec.)	3·99	2·85	·56	1·82	2·41	1·33	1·06	1·25	2·54	1·73	1·85	2·89	24·28
,,	,,	Stourbridge (Pedmore)	3·59	2·54	·85	2·72	2·08	2·83	1·22	1·28	3·36	2·70	1·77	2·36	27·30
,,	Warwick	Leamington (The Parade).	2·87	1·84	·79	1·96	1·95	1·52	·77	1·25	2·62	2·22	1·47	1·51	20·77
,,	,,	Bedworth Cemetery	3·19	2·32	1·44	2·12	2·06	1·53	1·10	1·19	5·66	2·25	2·03	1·66	26·55
VII.	Leicester	Loughboro' (Nan Pantan Res)	3·37	1·83	1·14	2·32	3·12	1·50	1·86	·75	2·82	2·74	1·79	2·31	25·55
,,	,,	Belvoir Castle ..... *n.g.*	2·70	1·19	·59	2·09	3·50	1·04	1·79	·89	2·63	2·78	1·46	1·98	22·64

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland.....	Market Overton	2·93	1·61	·80	2·38	2·21	1·22	1·39	·96	3·84	2·45	1·16	1·98	22·93
,,	Lincoln	Sleaford (Rauceby Hall) ...	2·63	1·37	·58	2·72	3·99	1·12	2·24	·92	2·22	2·78	1·24	2·14	23·95
,,	,, ...	Market Rasen	2·19	1·17	1·08	2·70	2·74	1·53	1·45	·47	2·68	2·79	1·10	2·38	22·28
,,	,, ...	West Halton.....	1·84	1·53	1·04	2·32	3·31	1·78	1·51	·79	2·45	2·73	1·03	3·05	23·38
,,	Notts	Ollerton(ThoresbyGardens)	2·67	1·35	·70	1·78	2·73	1·05	1·88	·65	3·08	2·82	1·17	2·30	22·18
,,	Derby.....	Darley Hall	4·37	2·38	1·59	3·62	3·05	1·87	1·18	·65	4·09	3·40	1·76	2·59	30·55
VIII.	Cheshire.....	Congleton(BuglawtonVic.)	2·65	1·26	1·27	2·85	1·84	2·07	2·19	1·50	3·63	3·01	1·18	2·91	26·36
,,	Lancashire.....	Manchester (Withington).	3·73	1·03	1·65	2·43	2·47	1·65	2·28	1·40	4·94	3·14	1·14	2·09	27·95
,,	,, ...	Ormskirk (Rufford).....	4·63	1·78	1·62	3·51	2·57	1·37	2·44	1·39	4·86	2·88	1·74	2·69	31·48
,,	,, ...	Burnley (Swinden, Lower)	7·16	2·31	2·81	3·99	3·10	1·53	2·73	1·57	7·28	3·31	2·48	3·54	41·81
,,	,, ...	St. Michael's-on-Wyre ...	4·47	1·98	2·58	3·49	3·40	1·55	1·81	1·69	4·99	3·15	2·66	3·00	34·77
,,	,, ...	Cartmel (Pit Farm).....	5·49	2·85	2·35	4·65	3·17	1·76	3·04	1·13	5·78	3·94	3·40	3·54	41·10
IX.	York, W.R.	Rotherham (MoorgateGrange)	2·72	1·75	·91	1·64	2·19	2·22	1·79	·86	2·88	2·78	1·14	2·12	23·00
,,	,, ...	Huddersfield (Dalton).....	5·86	1·47	1·95	2·67	4·35	2·53	1·58	1·71	7·48	4·56	1·73	4·12	40·01
,,	,, ...	South Milford Rectory ...	2·38	1·03	1·09	1·89	2·52	1·67	·79	·91	3·15	2·08	1·05	2·68	21·24
,,	,, ...	Malham Tarn ..... *old g.*	9·29	3·61	3·56	5·50	4·73	1·42	3·13	2·35	8·23	3·70	4·52	4·80	54·84
,,	,, ...	Ripon (Mickley)	4·39	1·93	1·20	2·37	3·87	1·60	1·77	1·71	3·53	2·74	2·56	3·15	30·82
,,	York, E.R.	Patrington.....	1·60	1·32	1·28	1·82	3·16	2·08	·77	·33	2·14	2·33	·89	2·79	20·51
,,	,, ...	Pocklington (Warter).....	2·23	1·58	2·18	2·36	4·55	1·33	1·90	·91	3·15	2·41	1·69	3·49	27·78
,,	,, ...	Lowthorpe (The Elms) ...	2·56	1·33	2·07	1·76	3·93	1·22	1·18	·59	2·55	2·39	1·01	2·65	23·24
,,	York, N.R.	Thirsk (Sowerby)	2·14	1·19	1·18	2·01	3·02	1·86	1·61	1·29	3·25	1·68	1·23	2·36	22·82
,,	,, ...	Whitby (Royal Crescent)...	1·93	1·18	2·49	1·88	2·81	1·15	·94	1·22	2·16	3·24	1·37	4·08	24·45
,,	,, ...	Lockwood Beck	3·19	1·28	2·04	2·45	3·82	1·21	1·14	1·06	3·99	4·30	1·98	3·11	29·57
X.	Durham.....	Darlington(HurworthGrange)	2·61	1·65	1·01	2·26	3·50	2·05	1·82	1·33	3·04	2·31	2·07	3·03	26·68
,,	,, ...	Hartlepool(HurworthBurn)	2·62	1·49	2·53	2·77	3·15	1·61	2·36	·37	2·42	2·81	1·36	2·98	26·47
,,	,, ...	Wolsingham	4·94	2·22	1·41	4·66	3·76	1·49	3·15	·87	3·90	2·24	2·68	3·65	34·97
,,	Northumberland	Haltwhistle(UnthankHall)	3·60	1·97	2·18	2·77	2·39	1·06	3·23	·50	4·13	3·12	3·52	2·71	31·18
,,	,, ...	Morpeth (Bothalhaugh Lawn)	2·12	1·40	1·77	3·05	3·35	2·31	2·63	1·54	3·01	1·47	1·68	3·50	27·83
,,	,, ...	Alwinton (Biddleston) ...	3·05	1·67	2·46	4·08	3·13	1·37	1·99	1·55	4·93	1·96	3·45	3·78	33·42
,,	,, ...	Howick Hall.....	2·33	1·51	2·11	2·47	2·85	1·14	2·75	1·35	2·40	2·55	1·91	4·14	27·51
,,	Cumberland	Borrowdale (Seathwaite)...	21·90	9·39	9·85	13·54	9·02	1·98	6·82	3·98	14·45	13·49	16·12	9·05	129·59
,,	,, ...	Brampton (Denton House)	5·20	1·82	1·73	2·43	2·81	·83	4·95	·74	4·52	2·33	3·62	1·93	32·91
,,	Westmoreland ...	Kendal (Ivy Garth)	8·48	4·00	3·23	4·86	4·56	1·59	3·25	2·63	5·29	4·10	4·20	3·09	49·28
,,	,, ...	Appleby (Ormside)	6·70	2·87	2·01	2·91	2·34	1·45	4·32	1·20	4·28	2·23	2·86	1·97	35·14
,,	,, ...	Lowther Castle.....	7·25	5·00	2·76	2·75	3·85	·88	4·58	1·32	5·42	2·41	6·38	1·84	44·44

MONMOUTH, WALES AND THE ISLANDS.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Monmouth.....	Chepstow (Shirenewton Hall)	6·55	3·79	1·46	3·74	2·84	1·93	·35	3·52	2·69	4·15	4·25	3·46	38·73
,,	,, ...	Abergavenny(Larchfield) ..	5·78	5·52	1·21	3·30	2·94	1·97	1·09	1·71	2·91	3·08	3·58	3·33	36·42
,,	Glamorgan.....	Cardiff Castle	6·14	4·26	1·53	4·77	2·54	1·34	·47	1·67	3·67	3·49	3·14	3·56	36·58
,,	,, ...	Neath (Fairy Land).....	6·71	4·02	1·78	5·23	4·61	1·28	1·42	2·18	2·42	4·30	3·05	3·27	40·27
,,	Carmarthen	Llanelly(Old Market Place)	7·05	4·30	1·76	4·27	3·57	·82	2·58	1·98	1·53	3·99	3·08	3·72	38·65
,,	,, ...	Llandovery	7·95	4·36	2·15	5·81	2·82	1·16	2·60	2·60	3·14	4·92	4·12	3·05	44·68
,,	Pembroke	St. David's	7·36	2·81	1·55	2·67	2·08	2·31	2·06	1·39	1·50	3·38	2·26	4·02	33·39
,,	Cardigan	Aberystwith(North Parade)	5·19	2·21	1·45	3·11	3·28	2·72	2·22	2·89	3·72	3·66	2·13	2·82	35·40
,,	Brecknock.....	Brecknock (Cantreff Rec.)	9·36	7·61	2·32	4·59	3·29	1·36	1·67	1·12	3·25	4·45	5·59	4·00	48·61
,,	,, ...	Newbridge (Llysdinam) ...	8·23	4·37	2·01	4·01	3·69	1·28	1·16	2·14	3·06	3·98	3·23	2·90	40·06
,,	Radnor	Rhayader (Nantgwilt) *o.g.*	11·55	8·61	2·70	6·60	3·82	2·10	2·65	2·59	4·83	4·96	6·05	5·04	61·50
,,	Montgomery.....	Churchstoke(Mellington Hall)	5·07	4·07	1·55	2·53	2·12	2·16	·82	1·04	4·11	2·75	2·39	3·35	31·96
,,	Flint	St. Asaph (Nantllys)	3·36	1·97	·91	2·34	2·00	1·80	2·23	·35	3·45	4·59	1·61	1·73	26·34
,,	Denbigh.....	Rosset (Trevalyn Hall) ...	3·74	1·90	·99	2·09	1·97	2·31	2·05	·92	2·73	3·27	1·57	2·11	25·65
,,	Merioneth	Dolgelly (Werngoch)	14·48	7·02	3·75	6·40	3·10	·75	1·90	1·20	3·22	2·27	2·45	1·82	48·36
,,	,, ...	Llanderfel (Palé)	9·45	4·84	2·92	4·95	2·77	2·85	2·11	1·82	3·68	4·27	5·97	3·67	49·30
,,	,, ...	Oakley Quarries	15·99	5·48	5·85	14·02	5·80	5·34	6·09	4·14	10·33	5·48	6·48	4·86	89·86
,,	Carnarvon.....	Llanystumdwy (Talarvor)	5·76	2·52	2·04	3·92	3·77	2·26	2·59	1·09	3·26	2·69	2·45	2·37	34·72
,,	Anglesey	Llanerchymedd (Llwydiarth)	5·65	3·55	2·46	3·05	2·35	2·44	3·74	·93	3·63	4·05	2·67	3·43	37·95
,,	Isle of Man	Douglas (Woodville)	6·60	2·89	2·31	4·57	3·72	2·85	4·04	1·31	3·07	3·53	2·94	4·96	42·79
,,	Jersey.....	St. Helier (St. Louis Obs.)	4·03	1·71	·44	3·06	2·26	·90	·69	·31	3·15	1·13	3·53	2·68	23·89
,,	Guernsey	St. Peter Port (Beaulieu)..	5·45	3·24	·81	3·53	2·61	1·40	1·33	·40	3·72	2·10	4·65	5·10	34·34
							SCOTLAND.								
XII.	Wigton	Garliestown (Galloway House)	4·34	2·20	2·17	3·81	4·34	2·83	2·54	1·87	4·96	2·21	4·36	5·47	41·10
,,	,, ...	Corsewall	3·41	1·81	1·58	3·60	3·83	1·85	2·03	2·81	4·24	2·20	2·58	5·13	35·07
,,	Kirkcudbright ...	Dalbeattie (Munches)	6·98	3·77	4·55	4·09	4·22	3·08	3·21	1·69	4·32	4·19	5·24	4·61	49·95
,,	,, ...	New Galloway (Glenlee)...	7·96	3·85	5·25	4·90	5·07	3·39	2·34	1·16	5·73	4·62	10·26	5·31	59·84
,,	Dumfries	Langholm	8·38	3·85	5·16	4·90	5·34	2·19	3·49	1·13	4·37	4·05	6·95	4·30	54·11
,,	,, ...	Moffat (Ericstane)	6·90	5·30	5·50	5·20	3·70	1·60	3·50	2·30	4·90	4·40	10·80	3·40	57·50
,,	Roxburgh	Hawick (Branxholme).....	4·63	2·92	3·69	2·92	2·82	1·07	3·73	·82	2·46	3·55	6·15	2·35	37·11
,,	,, ...	Jedburgh (Ancrum Bridge)	3·26	5·73	1·97	2·59	2·54	1·35	3·86	·95	3·82	1·59	3·12	2·07	32·85
XIII.	Selkirk	The Hangingshaw	4·18	3·16	3·09	3·53	3·33	1·39	2·17	1·20	3·11	2·33	5·63	2·54	35·66
,,	Peebles	Eddlestone (Portmore) ...	4·58	1·48	1·68	3·65	3·00	1·40	3·70	·98	3·45	3·55	4·05	2·37	33·89

SCOTLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Berwick	Marchmont House	3·32	1·57	2·35	2·85	3·98	1·38	3·72	1·54	3·34	1·82	3·17	3·59	32·63
,,	Haddington	Haddington Asylum	3·36	1·20	1·53	2·33	3·59	1·21	3·68	1·48	3·98	1·45	1·72	2·71	28·24
,,	Edinburgh	Edinburgh (Blacket Place)	3·69	1·45	2·13	2·29	3·80	1·48	3·98	·55	3·78	1·59	3·26	2·13	30·13
,,	Linlithgow	Linlithgow (NetherParkley	5·69	2·17	3·03	3·66	4·47	1·55	4·13	·83	2·44	3·66	4·08	3·81	39·52
XIV.	Lanark	Biggar (Cambus Wallace)..	3·80	1·50	2·21	2·25	2·42	1·40	3·45	1·20	3·71	2·03	3·95	2·22	30·14
,,	,,	Hamilton (Water Works)..	5·45	2·00	3·50	2·95	3·85	2·00	3·00	·95	3·00	3·00	4·80	2·30	36·80
,,	Ayr	Colmonell	5·21	2·97	2·91	4·29	3·09	1·76	3·68	1·68	6·30	3·47	5·99	5·30	46·65
,,	,,	Dalmellington (Benquhat).	5·89	1·93	3·32	3·62	3·79	1·48	3·83	2·29	5·37	5·12	5·28	3·65	45·57
,,	,,	Kilmarnock (North Craig).	5·80	1·80	3·70	3·20	4·20	2·00	4·95	1·80	5·00	3·80	6·80	4·00	47·05
XV.	Dumbarton	Arrochar	10·30	5·75	5·67	4·80	3·41	2·23	3·87	2·13	5·05	6·45	8·23	5·36	63·25
,,	Stirling	Buchlyvie (The Manse)	8·13	3·32	4·96	4·43	4·63	2·03	4·56	1·73	4·88	4·68	8·01	5·24	56·60
,,	Bute	Rothesay (Barone Cott.)	6·80	2·98	3·75	4·91	3·44	2·27	5·50	2·63	5·78	3·66	4·60	6·41	52·73
,,	Argyll	Lochgilphead (Poltalloch).	6·46	2·71	4·26	5·59	2·84	2·26	4·60	3·42	6·15	4·85	4·74	4·77	52·65
,,	,,	Morvern (Drimnin)	7·94	4·69	6·27	5·25	2·91	3·11	4·11	2·43	8·68	5·32	8·48	7·50	66·69
,,	,,	Ballachulish (Ardsheal)	6·92	5·85	7·68	5·79	2·17	2·29	5·54	2·91	8·59	7·88	10·90	6·77	73·29
,,	,,	Strontian (Laudale)	6·44	4·33	5·83	5·58	2·10	2·60	4·27	2·37	8·86	6·51	10·36	6·75	66·00
,,	,,	Kintyre (Devaar)	5·20	3·54	3·83	5·90	4·01	2·37	4·11	2·19	5·88	3·86	5·04	8·62	54·55
,,	,,	Tarbert (Stonefield)	11·79	5·26	6·10	7·41	3·57	2·52	5·46	3·78	10·00	6·68	7·53	7·48	77·58
,,	,,	Islay (Ardbeg)	4·41	2·10	3·58	4·18	4·17	1·83	4·93	2·48	7·28	4·71	3·44	6·92	50·03
,,	,,	Jura (Bay of Small Isles)..	6·50	3·50	7·20	7·00	4·50	2·30	4·80	4·00	7·20	5·50	7·00	10·10	69·60
XVI.	Clackmannan	Dollar	6·78	2·43	3·46	3·33	4·65	1·96	3·20	1·50	3·55	4·61	4·33	5·20	45·00
,,	Kinross	Loch Leven Sluice	6·20	2·80	3·30	3·20	4·60	1·90	2·80	1·30	2·30	4·00	4·30	4·10	40·80
,,	Fife	Kilconquhar (Balcarres)	4·74	2·57	2·23	3·75	4·73	1·64	3·41	·83	5·09	1·38	2·98	4·26	37·61
,,	Perth	Stronvar	9·63	6·83	7·06	6·80	4·20	2·34	4·58	2·08	7·30	7·22	13·73	5·53	77·30
,,	,,	Coupar Angus	3·57	2·89	1·83	2·82	3·78	1·41	2·09	·57	4·19	1·06	2·83	4·10	31·14
,,	,,	Blair Athol	4·17	2·52	1·97	3·67	2·80	1·86	2·89	·90	4·44	1·41	4·86	3·35	34·84
,,	Forfar	Broughty Ferry (DouglasHo.)	3·54	2·38	1·75	3·45	4·53	1·77	2·37	·49	3·64	·97	2·34	4·54	31·77
,,	,,	Kirriemuir (Balnakeilly)	4·50	4·20	2·50	4·00	2·60	1·30	1·40	·70	3·80	1·00	3·60	3·20	32·80
XVII.	Kincardine	The Burn [Brechin]	4·46	3·34	3·37	4·01	3·91	3·41	2·38	1·43	3·69	·88	2·71	5·40	38·99
,,	Aberdeen	Coldstone Manse	3·18	1·67	3·89	3·66	2·59	1·33	2·50	·61	4·24	·90	1·85	3·64	30·06
,,	,,	Haddo House	3·99	1·60	1·96	3·71	1·84	·97	4·47	·55	4·08	1·07	1·50	5·21	30·95
,,	,,	Banff (Earl Hill)	3·46	1·46	3·56	3·13	1·66	1·13	3·13	·77	3·54	1·03	1·03	5·91	29·81
,,	Moray	Grantown	2·63	1·23	2·90	3·69	1·33	1·88	3·46	1·18	5·06	1·38	2·20	4·12	31·06
,,	,,	Gordon Castle	3·50	1·77	2·87	4·67	2·17	1·57	3·22	1·74	3·20	1·73	1·39	4·98	32·81
,,	Nairn	Cawdor (Budgate)	3·77	1·46	2·56	4·36	2·57	1·25	3·35	·82	4·72	1·26	2·83	4·14	33·09

SCOTLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Nairn	Nairn (Achareidh)	2·96	1·44	2·26	3·79	2·24	1·52	2·45	·64	3·62	·82	1·73	3·75	27·22
XVIII.	Ross	Applecross	5·22	2·80	4·45	3·60	2·27	2·60	2·47	2·72	7·07	8·35	6·85	4·60	53·00
,,	,,	Strathconan [Beauly]	3·79	2·11	2·87	5·78	2·64	·92	4·06	1·21	8·30	4·42	6·00	4·03	46·13
,,	,,	Braemore House	5·20	3·60	4·05	4·53	3·50	2·90	2·54	3·30	11·50	4·10	10·50	7·60	63·32
,,	,,	Ardross Castle	6·44	1·63	3·94	5·45	2·20	1·56	2·74	1·17	5·59	3·30	3·61	5·32	42·95
,,	Inverness	Glen Quoich	10·29	4·79	11·66	8·29	4·82	3·15	6·13	3·20	13·96	11·16	21·95	8·04	107·44
,,	,,	Mucomir	6·98	2·91	6·33	4·80	1·92	2·16	3·80	1·42	8·83	8·66	12·34	4·67	64·82
,,	,,	Laggan Locks	7·27	4·12	7·11	5·70	2·82	2·39	3·81	1·17	8·56	8·14	12·34	3·95	67·38
,,	,,	Alvie Manse	3·38	1·31	1·99	3·22	3·01	·65	3·38	1·45	4·82	2·17	3·40	2·12	30·90
XIX.	Sutherland	Invershin	4·08	1·22	2·64	4·74	2·40	2·14	4·12	·80	5·33	2·46	3·37	3·65	36·95
,,	,,	Dunrobin Castle	4·24	1·55	2·91	4·04	2·53	1·50	3·18	1·15	4·81	2·05	2·52	3·68	34·16
,,	Caithness	Wick	3·20	1·34	3·05	2·24	2·11	1·15	2·10	1·36	5·32	1·95	2·15	3·71	29·68
,,	,,	Watten Station	3·15	1·03	1·66	1·82	2·18	1·09	2·15	1·16	5·09	2·01	1·71	3·86	26·91
,,	Shetland	Sumburghead(Dunroseness)	3·68	2·36	4·34	2·87	3·27	1·61	1·56	1·07	4·59	5·03	6·27	4·67	41·32

IRELAND.

XX.	Cork	Dunmanway (Coolkelure)	12·06	8·12	4·12	7·27	5·51	2·03	4·00	2·41	2·22	4·22	7·32	16·36	75·64
,,	,,	Cork (Palace)	5·16	5·06	1·75	3·15	3·81	1·31	1·69	2·51	1·17	1·54	3·07	14·75	44·97
,,	,,	Mallow (Summer Hill)	5·77	4·60	1·92	3·68	2·61	1·03	2·08	1·51	1·42	2·08	4·34	10·50	41·54
,,	Kerry	Darrynane Abbey	6·69	5·69	2·11	5·39	2·55	2·03	2·25	2·68	2·40	1·84	2·51	8·16	44·30
,,	,,	Kenmare (Derreen)	10·88	10·26	4·00	6·71	5·28	1·63	3·30	4·40	2·85	3·55	6·14	16·95	75·95
,,	Waterford	Waterford (Brook Lodge)	5·67	4·53	1·62	3·13	3·74	2·70	3·00	1·85	1·03	2·29	2·86	8·64	41·06
,,	Tipperary	Clonmel (Bruce Villa)	5·18	3·66	1·19	2·58	3·27	1·91	3·17	2·30	1·30	1·54	3·18	8·49	37·77
,,	,,	Nenagh (Castle Lough)	5·48	3·78	1·47	3·90	3·56	1·34	2·74	2·77	2·83	1·77	3·39	6·05	39·08
,,	,,	Ballingarry (Hazelfort)	3·65	2·34	1·08	3·05	2·96	1·96	2·56	3·77	2·19	1·59	2·46	4·22	31·83
,,	Limerick	Limerick (Roxborough)	4·37	2·94	1·08	3·69	2·87	1·40	2·26	2·96	4·16	1·97	2·36	6·94	37·00
,,	Clare	Killadysert (Paradise Hill)	6·43	4·09	1·80	4·09	3·07	2·18	3·79	2·80	4·25	2·53	4·09	6·61	45·73
,,	,,	Miltown Malbay	5·35	3·03	2·06	3·60	2·78	2·58	1·71	5·06	4·47	2·54	4·48	6·63	44·29
XXI.	Wexford	Ballyhyland	5·81	4·75	1·41	2·86	3·18	2·30	4·30	1·47	2·42	2·48	3·21	5·76	39·95
,,	,,	Gorey (Courtown)	4·48	3·67	·89	2·26	2·87	2·45	3·77	2·02	1·94	2·08	2·83	3·97	33·23
,,	Kilkenny	Inistioge (Woodstock)	6·12	4·82	1·14	2·62	2·96	2·86	3·45	2·39	1·51	2·31	4·74	7·99	42·91
,,	,,	Lavistown (Millmount)	4·11	2·73	·73	1·80	2·32	2·03	3·11	1·62	1·61	1·60	2·75	5·28	29·69
,,	Wicklow	Bray (Fassaroe)	4·92	5·34	1·06	3·12	2·84	3·50	4·39	3·07	3·14	1·49	4·32	5·24	42·43
,,	Carlow	Carlow (Browne's Hill)	4·42	2·43	1·21	2·55	2·66	1·90	5·13	1·57	1·86	1·73	2·40	4·78	32·64

IRELAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Queen's County...	Abbey Leix (Blandsfort)...	4·41	2·44	1·13	3·20	2·71	2·59	2·99	2·13	2·83	1·67	3·29	5·28	34·67
,,	Kildare	Straffan House.....	3·80	1·43	1·54	2·67	2·71	1·68	3·91	2·34	2·83	1·58	3·16	4·24	31·89
,,	Dublin	Glasnevin(BotanicGardens)	2·66	1·83	1·03	2·64	2·49	2·03	3·19	3·60	3·58	1·54	1·99	3·93	30·51
,,	Meath	Athboy	3·83	2·39	1·26	2·67	4·28	2·12	2·85	3·07	2·99	1·61	2·74	5·68	35·49
,,	,, ...	Moynalty (Westland)	4·31	2·84	1·46	3·11	3·80	1·90	2·67	2·75	3·69	1·97	3·31	5·39	37·20
,,	Westmeath	Athlone (Twyford)	3·92	2·78	1·63	3·77	3·32	3·86	1·78	2·52	2·40	1·55	3·98	5·28	36·79
,,	,, ...	Mullingar (Belvedere).....	3·92	2·60	1·57	3·10	3·75	3·05	2·71	2·57	3·04	1·46	2·50	5·86	36·13
,,	Louth	Ardee (Lissrenny).....	3·35	2·77	1·40	2·59	3·52	1·70	2·80	3·03	2·92	1·47	2·30	5·01	32·86
,,	,, ...	Greenore	4·28	2·56	1·06	3·66	3·62	1·94	2·83	2·08	2·85	1·32	2·13	5·51	33·84
XXII.	Galway	Ballinasloe	4·43	3·29	1·94	3·47	2·90	2·82	1·87	2·58	2·70	1·77	3·66	3·59	35·02
,,	,, ...	Kylemore House	8·15	6·30	5·02	6·62	2·65	4·03	3·07	6·38	7·09	4·45	8·93	13·64	76·33
,,	,, ...	Tuam (Gardenfield).....	4·83	3·91	2·68	3·98	2·89	2·34	2·06	3·30	2·90	2·54	4·97	6·92	43·32
,,	Roscommon	Rooskey	3·45	2·98	1·33	3·09	3·75	2·49	1·72	2·13	2·54	2·36	2·54	4·31	32·69
,,	Mayo ...'''.....	Ballinrobe (Cranmore).....	6·20	3·96	2·20	3·56	2·35	2·95	3·04	3·31	2·78	3·31	6·41	7·03	47·10
,,	,, ...	Crossmolina (Enniscoe) ...	5·88	5·26	4·12	5·50	3·10	3·74	1·29	2·30	4·66	3·35	6·33	7·87	53·40
,,	Sligo	Ballymote (New Park) ...	4·55	3·40	2·20	4·60	2·50	2·80	2·05	2·82	3·78	2·40	4·65	5·85	41·60
,,	,, ...	Ballysadare (Glen Lodge)..	3·76	3·36	3·13	3·90	2·94	2·80	2·42	3·24	5·10	2·67	4·57	6·75	44·64
XXIII.	Cavan	Stradone House	4·19	2·89	1·92	3·48	4·78	2·27	1·73	1·82	3·17	3·33	4·29	5·31	39·18
,,	,, ...	Ballyconnell House.....	4·57	3·45	2·08	4·12	3·73	1·65	2·13	2·76	3·90	3·00	3·22	5·59	40·20
,,	Monaghan.....	Dartrey.....	3·44	2·80	1·50	3·19	3·90	2·41	2·01	3·69	4·27	2·95	3·25	4·70	38·11
,,	Armagh.....	Bridge Street [Newry] ...	4·33	3·87	2·21	4·30	4·36	2·05	3·14	1·77	3·19	2·06	3·66	5·50	40·44
,,	,, ...	Armagh.....	2·80	2·68	1·74	3·46	3·79	2·36	2·01	2·06	3·70	1·70	2·78	3·42	32·50
,,	Down.....	Seaforde	5·38	3·70	1·53	4·37	3·93	2·99	3·17	1·60	4·37	1·86	4·41	6·05	43·36
,,	,, ...	Donaghadee	3·43	2·87	1·63	3·34	3·26	1·96	2·79	1·50	2·93	1·97	2·50	4·62	32·80
,,	Antrim	Belfast (Springfield).....	4·63	3·04	2·15	4·79	3·53	2·16	2·88	1·84	3·43	2·55	3·62	5·40	40·02
,,	,, ...	Ballymena.....	3·65	2·62	2·48	4·29	3·82	1·72	4·00	1·63	4·42	2·36	3·49	6·42	40·90
,,	,, ...	Bushmills (Dundarave) ...	3·51	1·75	2·25	4·52	3·04	2·25	2·84	2·26	6·55	1·98	2·47	7·35	40·77
,,	Londonderry.....	Garvagh (Moneydig)	4·12	2·26	2·32	4·37	3·91	2·47	3·20	2·81	4·94	2·00	3·17	5·61	41·18
,,	Tyrone	Stewartstown (The Square)	3·58	3·08	2·49	3·89	3·96	2·06	2·79	2·09	3·29	1·98	3·11	5·32	37·64
,,	,, ...	Omagh (Edenfel)	4·74	3·19	2·35	4·75	3·40	2·83	2·54	3·32	4·84	1·98	3·04	4·99	41·97
,,	Donegal.....	Killybegs	6·55	2·64	5·35	7·75	2·46	3·07	4·29	2·68	7·77	3·45	5·97	6·68	58·66
,,	,, ...	Horn Head	6·12	2·67	2·96	4·59	2·72	2·65	2·28	1·59	4·93	2·18	3·85	5·80	42·34

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1899 TO THE AVERAGE.

THE following map and tables will be familiar to most of our readers, but it may be well to briefly describe them. Their main object is to ascertain to what extent the year under review was a wet or a dry one, and how far the relative wetness or dryness varied in the different parts of the three kingdoms.

As soon as the average for the ten years, 1880-89, became available, a sufficient number of stations was selected to represent the average fall over the country, with enough detail for general purposes, care being taken that the distribution was as equable as possible. The same stations have been retained year by year, only such changes being made as necessarily resulted from the cessation of observations at various stations. A glance at the map will show that, although there is a large gap over the highlands of Scotland and smaller ones in the S.W. of Ireland and surrounding Sligo, the distribution has remained on the whole thoroughly satisfactory. The difference between the fall at each station in the year under consideration, and the average, is then calculated and expressed as a percentage of the average; and this percentage is finally transferred to the map as a symbol: a dot indicating a fall within ten per cent. of the average, a + or — an excess or defect of from 10 to 25 per cent., and a plus or minus sign enclosed in a circle, an excess or defect of 25 per cent. or more.

Dealing first with the kingdoms as a whole, the following abstract shows that the mean of the 95 English and Welsh stations for 1899 is eight per cent. less than the average. At 51 stations, or considerably more than half, the fall was within 10 per cent. of the average; at 41 stations there was a deficiency of more than 10 per cent., at one station there was a deficiency of more than 25 per cent., while at only two stations was there an excess of as much as 10 per cent.

For Scotland, the 43 stations give a mean for 1899 7 per cent. above the average, 23 stations, or again more than half, had a fall within 10 per cent. of the average; 15 stations had an excess of 10 per cent. or more; and three stations had an excess of 25 per cent. or more, while only two stations had a deficiency of as much as 10 per cent.

For Ireland, the 34 stations give a mean excess of 2 per cent., or practically an average value. Twenty-eight stations, or more than four-fifths, had a total within 10 per cent of the average; four had an excess of 10 per cent. or more, and two had a deficiency of 10 per cent. or more.

The whole 172 stations in the three kingdoms show a mean deficiency of one per cent.

ABSTRACT.

COUNTRIES.	No. of Records.	Average 1880-89.	1899.	Diff. from Average. 1880-89. Amount.	Per cent.
		in.	in.	in.	
England and Wales...	95	34·18	31·52	2·66 —	8
Scotland.....	43	44·80	47·82	3·02 +	7
Ireland	34	39·15	40·04	·89 +	2
Mean of all Stations...	172	37·82	37·28	·54 —	1

To sum up, Ireland had an average fall, Scotland an excess of 7 per cent., and England a deficiency of 8 per cent., unimportant variations in opposite directions which nearly counterbalance each other. Thus 1899 gave a thoroughly normal rainfall for the British Isles.

We next have to consider the details of the distribution, and confess that we studied the map for England for some little time without finding much to comment on, the dots and minuses appearing to be sprinkled over it so impartially.

The ringed minus at Wellingborough is the greatest departure from the mean, but there is no reason to doubt its accuracy, and it calls attention to the region of most striking deficiency, which stretches from Dorsetshire to Lincolnshire, as will be clearly shown if we set out all deficiencies of 20 per cent. or more, arranged from S.W. to N.E.

Christchurch.....	*Hampshire*..	— 20 per cent.
Glastonbury	*Somerset*.....	— 23 ,,
Oxford	*Oxford*	— 22 ,,
Malvern	*Worcester*	— 21 ,,
Shipston.....	*Warwick*	— 22 ,,
Winslow.....	*Bucks*.....	— 24 ,,
Wellingborough	*Northampton*	— 29 ,,
Ely	*Cambridge*	— 23 ,,
Market Overton..... ...	*Rutland*.....	— 20 ,,
Newark	*Lincoln*	— 23 ,,
Horncastle	,, ...	— 20 ,,

DIFFERENCE OF TOTAL RAINFALL IN 1899 FROM THE AVERAGE OF 1880-89.

The round dot indicates a rainfall within 10 per cent. of the average.
The + and − respectively show excess or defect of between 10 and 25 per cent.
The same signs enclosed by a ring indicate a departure from the average of more than 25 per cent.

Face p. [160].

The + at Kirkby Stephen appears isolated, but there were slight excesses at Carlisle, Seathwaite, Bedale and Darlington, all adjoining stations. Again, the + at Saffron Walden stands alone, but the fall at Chelmsford, which is to the S.E., also was above the average.

Every Welsh station is represented as a dot, except Neath where there was a deficiency of 17 per cent.; this to a certain extent falls in with the area of greatest deficiency in England.

In Scotland there appear to have been two areas of great excess, indicated by the ringed pluses. One in the S.W., and stretching across the country from Ayr to Montrose.

Cargen	*Kirkcudbright*	+ 24 per cent.
Kilmarnock	*Ayr*	+ 32 ,,
Rothesay	*Bute*	+ 15 ,,
Stirling	*Stirling*	+ 25 ,,
Beath	*Fife*	+ 18 ,,
Crieff	*Perth*	+ 19 ,,
Broughty Ferry	*Forfar*	+ 17 ,,
Montrose	,,	+ 16 ,,

The other in the N.

Nairn	*Nairn*	+ 25 per cent.
Alness	*Ross*	+ 22 ,,
Invershin	*Sutherland*	+ 17 ,,
Roeberry	*Orkney*	+ 21 ,,

The two minus signs at Arrochar and Laudale support each other.

For Ireland, the + at Kenmare, in the S.W., is supported by slight excesses (but less than 10 per cent.) at all stations in Munster. In Leinster the records, if averaged, show a fall almost inappreciably below the average. Connaught also shows a small deficiency. Ulster, as a whole, has the largest excess, and if we exclude one station—Belturbet (which shows the greatest deficiency in the kingdom)—it averages six per cent. Stations with an average for the ten years 1880-89 are few in central Ireland, but there appears to be good evidence of an area of appreciable deficiency in the region stretching from Galway Bay to Upper Lough Erne.

COMPARISON OF THE RAINFALL OF THE YEAR 1899, WITH THE AVERAGE OF THE YEARS 1880-89.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1899.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
I.	Middlesex	London (Camden Square)	25·45	22·54	2·91	— 11
II.	Surrey	Dorking (Abinger Hall)	30·60	27·06	3·54	— 12
,,	Kent	Tenterden .....(*Snowdon*)	28·11	24·17	3·94	— 14
,,	,, ...	Sheldwich	28·70	27·20	1·50	— 5
,,	,, ...	Sevenoaks (Riverhead Vic.) ...	28·37	25·48	2·89	— 10
,,	Sussex, West...	Chichester (Chilgrove)	32·83	29·92	2·91	— 9
,,	,, East ...	Maresfield (Forest Lodge).....	31·41	27·00	4·41	— 14
,,	Hampshire.....	Isle of Wight (Osborne)	27·29	24·62	2·67	— 10
,,	,, ...	Christchurch (Mudeford)	27·01	21·70	5·31	— 20
,,	,, ...	Alresford (Ovington)	31·02	31·78	·76	+ 2
,,	Berkshire	Newbury (Welford Park) *n.g.*	30·27	28·11	2·16	— 7
III.	Hertfordshire..	Hertford (Bayfordbury)	25·04	22·93	2·11	— 8
,,	Buckingham ...	Slough (Langley)	24·37	21·79	2·58	— 11
,,	,, ...	Winslow (Addington Manor) ..	27·97	21·29	6·68	— 24
,,	Oxfordshire ...	Oxford (Magdalen Coll.)	26·19	20·44	5·75	— 22
,,	Northampton...	Wellingboro'(Croyland Abbey)	28·67	20·46	8·21	— 29
,,	Bedfordshire ...	Bedford (Milton Ernest)	23·87	23·03	·84	— 4
,,	Cambridgeshire	Ely (Stretham)	22·39	17·27	5·12	— 23
,,	,, ...	Wisbech (Bank House).....	25·27	23·12	2·15	— 9
IV.	Essex	Chelmsford (High Street).....	23·01	23·47	·46	+ 2
,,	,, ...	Saffron Walden (Newport) ...	24·82	27·41	2·59	+ 10
,,	Suffolk	Rendlesham Hall	24·83	22·38	2·45	— 10
,,	,, ...	Ixworth(Walsham-le-Willows)	26·13	24·20	1·93	— 7
,,	Norfolk	Geldeston[Beccles].....5 *in. g.*	23·90	23·40	·50	— 2
,,	,, ...	Sprowston (Oak Lodge).....	26·11	23·02	3·09	— 12
,,	,, ...	Swaffham (Dunham)	28·76	23·75	5·01	— 17
,,	,, ...	Hillington School	28·10	24·72	3·38	— 12
V.	Wilts	Salisbury Plain (Chitterne Ho.)	28·26	25·67	2·59	— 9
,,	,, ...	New Swindon	28·38	24·50	3·88	— 14
,,	Dorset.....	Beaminster Vicarage.....	38·47	32·17	6·30	— 16
,,	Devon.....	Ashburton (Druid House).....	51·28	50·47	·81	— 2
,,	,, ...	Polapit Tamar.....	38·18	36·83	1·35	— 4
,,	,, ...	Bampton (Huntsham)	44·52	45·10	·58	+ 1
,,	,, ...	Barnstaple (Arlington Court)..	52·85	51·71	1·14	— 2
,,	Cornwall	Marazion.....	38·68	31·86	6·82	— 18
,,	,, ...	St. Austell (Trevarna)	47·10	40·94	6·16	— 13
,,	Somerset	Glastonbury (Street)	31·16	24·07	7·09	— 23
VI.	Gloucestershire	Clifton (Pembroke Road)	36·08	33·65	2·43	— 7
,,	,, ...	Stroud (Upfield).....	30·91	25·20	5·71	— 18
,,	Hereford	Ross (The Graig)	31·18	25·44	5·74	— 18
,,	,, ...	Kington (Lynhales)	35·32	31·14	4·18	— 12
,,	Shropshire.....	Bishop's Castle (Castle Street).	34·08	29·88	4·20	— 12

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1899.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
VI.	Shropshire.....	Shifnal (Haughton Hall)	28·54	28·95	·41	+ 1
,,	,, ...	Adderley Rectory	28·80	27·65	1·15	— 4
,,	Stafford	Dennis [Stourbridge]	28·07	26·55	1·52	— 5
,,	,, ...	Burton (Shobnall)	25·86	24·12	1·74	— 7
,,	,, ...	Cheadle (The Heath House) ...	32·71	30·94	1·77	— 5
,,	Worcester	Northwick Park	30·09	25·89	4·20	— 14
,,	,, ...	Grt. Malvern (Church Street).	29·49	23·43	6·06	— 21
,,	Warwick	Shipston (Compton Wynyates)	28·67	22·44	6·23	— 22
,,	,, ...	Coventry (Priory Row)	28·94	27·12	1·82	— 6
VII.	Leicester	Thornton Reservoir	27·69	25·84	1·85	— 7
,,	Rutland.....	Market Overton	28·54	22·93	5·61	— 20
,,	Lincoln	Stubton [Newark]	27·44	21·09	6·35	— 23
,,	,, ...	Horncastle (Bucknall)	25·96	20·78	5·18	— 20
,,	,, ...	Brigg	27·22	25·62	1·60	— 6
,,	Nottingham ...	Worksop (Hodsock Priory) ...	25·84	22·27	3·57	— 14
,,	Derby	Matlock Bath	36·62	29·81	6·81	— 19
VIII.	Cheshire.....	Chester Nurseries	29·08	25·93	3·15	— 11
,,	,, ...	Chelford (Astle Hall).....	30·73	26·54	4·19	— 14
,,	,, ...	Torrside Reservoir.....	44·65	42·80	1·85	— 4
,,	Lancashire.....	Ormskirk (Rufford)	31·86	31·48	·38	— 1
,,	,, ...	Over Darwen (St. James's Vic.)	46·56	44·53	2·03	— 4
,,	,, ...	Kirkham (Weeton)	37·04	33·23	3·81	— 10
,,	,, ...	Cartmel (Holker)	42·25	39·35	2·90	— 7
IX.	York, W. Ridng.	Wakefield Prison	28·02	24·40	3·62	— 13
,,	,, ,, ...	Knaresborough (Farnham) ...	27·37	24·17	3·20	— 12
,,	,, ,, ...	Malham Tarn.....	57·71	54·84	2·87	— 5
,,	,, E. Riding.	Pocklington (Warter)	30·46	27·78	2·68	— 9
,,	,, N. Riding.	Old Malton	26·90	23·72	3·18	— 12
,,	,, ,, ...	Bedale (Thorpe Perrow)	27·75	28·23	·48	+ 2
,,	,, ,, ...	Guisborough (Hutton Hall) ...	33·97	28·69	5·28	— 16
X.	Durham.....	Darlington (Cleveland Parade)	26·37	26·92	·55	+ 2
,,	,, ...	Wolsingham	35·27	34·97	·30	— 1
,,	Northumberlnd	Haltwhistle (Unthank Hall)...	35·97	31·18	4·79	— 13
,,	,, ...	Rothbury (Cragside)	34·03	33·11	·92	— 3
,,	,, ...	Pawston [Coldstream]	30·00	28·83	1·17	— 4
,,	Cumberland ...	Borrowdale (Seathwaite) *4in.g.*	129·00	129·59	·59	+ 0
,,	,, ...	Carlisle Cemetery	30·34	31·18	·84	+ 3
,,	Westmoreland.	Kirkby Stephen	39·62	45·30	5·68	+ 14
XI.	Monmouth.....	Abergavenny (Larchfield).....	38·65	36·42	2·23	— 6
,,	Glamorgan.....	Cardiff Castle.....	39·55	36·58	2·97	— 8
,,	,, ...	Neath	50·13	41·77	8·36	— 17
,,	Carmarthen ...	Llandilo (Dynevor Castle) ...	51·17	48·98	2·19	— 4
,,	Pembroke	Pembroke (Stackpole Court) ..	41·59	39·48	2·11	— 5
,,	,, ...	Castle Malgwyn [Llechryd] ...	45·29	43·31	1·98	— 4
,,	Brecknock.....	Cantreff Rectory .....*o.g.*	51·27	48·61	2·66	— 5
,,	Radnor	Rhayader (Nantgwillt) ...*o.g.*	62·80	61·50	1·30	— 2
,,	Montgomery ...	Churchstoke (Mellington Hall)	32·07	31·96	·11	— 0

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1899.	Difference from average, 1880-9. Amount.	Per cent.
			in.	in.	in.	
XI.	Flint	St. Asaph (Nantllys)	28·87	26·34	2·53	— 9
,,	Merioneth	Llanderfel (Palé)	47·47	49·30	1·83	+ 4
,,	Carnarvon	Llanystumdwy (Talarvor)	36·53	34·72	1·81	— 5
,,	Anglesea	Llanerchmedd Llwydiarth Esgob	36·63	37·95	1·32	+ 4
,,	Isle of Man	Douglas (Woodville)	40·60	42·79	2·19	+ 5
,,	Scilly	St. Mary's	32·42	31·85	·57	— 2
		SCOTLAND.				
XII.	Kirkcudbright.	Dalbeattie (Colvend Manse)	36·08	38·69	2·61	+ 7
,,	,,	Gatehouse (Cally)	49·15	54·33	5·18	+ 11
,,	,,	Cargen [Dumfries]	39·74	49·23	9·49	+ 24
,,	Dumfries	Langholm (Ewes School)	52·81	56·14	3·33	+ 6
,,	,,	Moffat (Ericstane)	52·63	57·50	4·87	+ 9
,,	Roxburgh	St. Boswells (Elliston)	28·73	29·20	·47	+ 2
XIII.	Berwick	Marchmont House	34·01	32·63	1·38	— 4
,,	Haddington	Haddington Asylum	26·24	28·24	2·00	+ 8
,,	Edinburgh	Pentland Hills (Glencorse)	39·21	40·70	1·49	+ 4
XIV.	Lanark	Biggar (Cambus Wallace)	29·98	30·14	·16	+ 1
,,	,,	Airdrie (Hillend Res.)	35·80	40·55	4·75	+ 13
,,	Ayr	Girvan (Pinmore)	48·25	49·45	1·20	+ 2
,,	,,	Kilmarnock (North Craig)	35·77	47·05	11·28	+ 32
,,	Renfrew	Gorbals W.W. (Waulk Glen)	43·32	49·55	6·23	+ 14
XV.	Dumbarton	Arrochar	74·10	63·25	10·85	— 15
,,	Stirling	Stirling (Polmaise Gardens)	33·79	42·32	8·53	+ 25
,,	Bute	Rothesay (Barone Cottage)	46·04	52·73	6·69	+ 15
,,	Argyll	Appin (Airds)	53·62	54·81	1·19	+ 2
,,	,,	Strontian (Laudale)	78·71	66·00	12·71	— 16
,,	,,	Tarbert (Stonefield)	69·63	77·58	7·95	+ 11
,,	,,	Islay (Ardbeg)	45·25	50·03	4·78	+ 11
,,	,,	Mull (Quinish)	57·28	57·93	·65	+ 1
XVI.	Fife	Beath (Outh)	33·30	39·15	5·85	+ 18
,,	Perth	Bridge of Turk	66·09	62·15	3·94	— 6
,,	,,	Balquhidder (Stronvar)	73·44	77·30	3·86	+ 5
,,	,,	Crieff (Ochtertyre)	40·30	48·12	7·82	+ 19
,,	Forfar	Broughty Ferry (Douglas Ho.)	27·27	31·77	4·50	+ 17
,,	,,	Kirriemuir (Lintrathen)	34·62	35·42	·80	+ 2
,,	,,	Montrose (Sunnyside Asylum)	25·74	29·82	4·08	+ 16
XVII.	Aberdeen	Braemar	35·57	35·46	·11	— 0
,,	,,	Cromar (Logie Coldstn. Manse)	28·62	30·06	1·44	+ 5
,,	Banff	Keith	29·98	32·71	2·73	+ 9
,,	Elgin	Grantown	28·65	31·06	2·41	+ 8
,,	Nairn	Nairn (School House)	22·61	28·23	5·62	+ 25
XVIII.	Ross, West	Strathconan (Dalbreac)	49·76	46·13	3·63	— 7
,,	,,	Braemore House	57·94	63·32	5·38	+ 9

SCOTLAND—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1899.	Difference from average 1880-9. Amount.	Per cent.
			in.	in.	in.	
XVIII.	Ross, East	Alness (Ardross Castle)	35·31	42·95	7·64	+ 22
,,	Inverness, West	Loch Shiel (Glenaladale)	104·18	110·86	6·68	+ 6
,,	,, ...	Glenquoich	102·64	107·44	4·80	+ 5
XIX.	Sutherland	Invershin	31·50	36·95	5·45	+ 17
,,	,, ...	Golspie (Dunrobin Castle)	30·00	34·16	4·16	+ 14
,,	Caithness	Watten, H.R.S.	27·01	26·91	·10	— 0
,,	Orkney	S. Ronaldshay (Roeberry)	31·61	38·21	6·60	+ 21

IRELAND.

XX.	Cork	Cork (Roche's Point)	46·46	48·87	2·41	+ 5
,,	Kerry	Kenmare (Derreen)	67·99	75·95	7·96	+ 12
,,	Waterford	Waterford (Brook Lodge)	38·31	41·06	2·75	+ 7
,,	,, ...	Glenam [Clonmel]	42·15	43·99	1·84	+ 4
,,	Tipperary	Derry Castle [Killaloe]	46·33	46·57	·24	+ 1
,,	Clare	Miltown Malbay	44·12	44·29	·17	+ 0
XXI.	Wexford	Enniscorthy (Ballyhyland)	42·80	39·95	2·85	— 7
,,	,, ...	Gorey (Courtown House)	35·39	33·23	2·16	— 6
,,	Kilkenny	Inistioge (Woodstock)	41·67	42·91	1·24	+ 3
,,	Wicklow	Bray (Fassaroe)	43·28	42·43	·85	— 2
,,	Carlow	Carlow (Browne's Hill)	33·59	32·64	·95	— 3
,,	King's Co.	Parsonstown (Birr Castle)	32·22	32·89	·67	+ 2
,,	Dublin	Dublin (FitzWilliam Square)	27·47	27·74	·27	+ 1
,,	West Meath	Athlone (Twyford)	38·97	36·79	2·18	— 6
,,	,, ...	Mullingar (Belvedere)	34·69	36·13	1·44	+ 4
,,	Louth	Dundalk (Farndreg)	29·30	31·42	2·12	+ 7
XXII.	Galway	Ahascragh (Clonbrock)	39·91	35·63	4·28	— 11
,,	,, ...	Tuam (Gardenfield) ...1 ft.	44·28	43·32	·96	— 2
,,	Mayo	Crossmolina (Enniscoe)	51·41	53·40	1·99	+ 4
XXIII.	Cavan	Belturbet (Red Hills)	34·57	27·68	6·89	— 20
,,	Armagh	Armagh Observatory	32·16	32·50	·34	+ 1
,,	Down	Warrenpoint (Summer Hill)	37·88	40·04	2·16	+ 6
,,	,, ...	Seaforde	37·89	43·36	5·47	+ 14
,,	,, ...	Banbridge (Milltown)	31·44	32·37	·93	+ 3
,,	,, ...	Donaghadee	31·58	32·80	1·22	+ 4
,,	Antrim	Belfast (Antrim Road)	34·57	36·59	2·02	+ 6
,,	,, ...	Ballymena (Harryville)	39·41	40·90	1·49	+ 4
,,	,, ...	Bushmills (Dundarave)	37·87	40·77	2·90	+ 8
,,	Londonderry	Garvagh (Moneydig)	39·02	41·18	2·16	+ 6
,,	,, ...	Londonderry (Creggan Res.)	40·78	39·41	1·37	— 3
,,	Tyrone	Stewartstown (The Square)	34·90	37·64	2·74	+ 8
,,	,, ...	Omagh (Edenfel)	36·63	41·97	5·34	+ 15
,,	Donegal	Buncrana (Rockfort)	40·71	38·73	1·98	— 5
,,	,, ...	Moville (Prospect Villa)	41·23	46·29	5·06	+ 12

EXTREMES OF RAINFALL IN 1899.

Largest Rainfall, at Ben Nevis Observatory ..... 187·31 in.
Least Rainfall, at Moulton ..... 17·31 ,,

ENGLAND.

Greatest.			Least.		
Div.		in.	Div		in.
X.	The Stye, C	164·75	IV.	Moulton	17·31
,,	Ullscarf	130·40	IX.	Patrington (Spurn Head) ...	17·43
,,	Seathwaite	129·59	III.	Trumpington (Gilmerton) ...	18·01
,,	Styehead Tarn	120·60	II.	Dungeness.....	18·12
,,	Mickleden	113·18	I.	Hampton(SouthwarkW.W.)	18·18
,,	Sprinkling Tarn	113·05	III.	Potton Vicarage	18·19

MONMOUTH, WALES AND THE ISLANDS.

Greatest.			Least.		
Div.		in.	Div.		in.
XI.	Dolwyddelan, No. 2.....	131·90	XI.	Llandwyn Island.....	23·33
,,	Idwal Lake, South End ...	110·86	,,	Rhyl (Sedgley House).....	23·67
,,	Eigian Lake, No. 8	107·65	,,	Gresford (Trewythen)	24·51
,,	Idwal Lake, North End ...	105·05	,,	Bagillt Lead Works	24·84
,,	Oakley Quarries.....	89·86	,,	Prestatyn (Edlestone House)	25·38
,,	Llanbedr-y-cennin (Lyndulyn)	85·54	,,	Rosset (Trevalyn Hall)	25·65

SCOTLAND.

Greatest.			Least.		
Div.		in.	Div.		in.
XVIII.	Ben Nevis Observatory ...	187·31	XVII.	Peterhead (H.M. Prison) ...	20·87
,,	Loch Shiel (Glenaladale) ...	110·86	XII.	Kelso (Springwood Park) ...	23·40
,,	Glenquoich	107·44	XVIII.	Fearn (Lower Pitkerrie) ...	24·14
XV	Glengyle	106·20	XVI.	Arbroath (Dishland Hill) ...	24·52
,,	Ben Lomond	105·50	XIII.	Leith	24·79
XVIII.	Skye (Strathaird)	96·38	XVII.	New Deer Schoolhouse	25·00

IRELAND.

Greatest.			Least.		
Div.		in.	Div.		in.
XX.	Gap of Dunloe (Garrymeen)	79·25	XXI.	Donnybrook (Seaview Terr.)	25·76
XXII.	Clifden (Kylemore House)...	76·33	,,	Dublin (Phœnix Park)	26·96
XX.	Kenmare (Dereen)	75·95	,,	Lucan (The Garden)	26·98
,,	Dunmanway (Coolkelure) ..	75·64	,,	Rathmines (Leinster Road)..	27·47
XXII.	Clifden (Kylemore Castle)...	68·84	,,	,, (Terenure)	27·60
XX.	Valencia (Glanleam)	61·56	XXIII.	Belturbet (Red Hills)..	27·68

NOTE.

Second gauges, and those at Lighthouses, are excluded from the above, and in selecting the minima, no record is used from any gauge of which the receiving surface is more than 3 ft. above the ground.

GENERAL TABLES

TOTAL RAINFALL IN 1899,

AT

3500 STATIONS

IN THE

BRITISH ISLES.

EXPLANATION OF THE ARRANGEMENT OF THE FOLLOWING GENERAL TABLES.

The divisions are the same as those adopted by the Registrars General of England and Scotland, and the counties follow the same order as in the reports of those officers; but an alphabetical list of the counties is given, whereby the page or pages on which all returns from each county will be found, can be at once ascertained.

The stations in each county are arranged nearly in the order of their latitude from South to North.

To facilitate finding the locality of any gauge, the first name is almost always that of a place given in *Bradshaw*, the *Post Office Guide*, or the *Clergy Directory;* the second name is generally added to fix accurately the site of Observation; but, in a very few instances, when in [ ] instead of ( ), it is that of the nearest town in an adjoining county; *e.g.*, "Haslemere (Weycombe)" means Weycombe near Haslemere, both in one county; but "Geldeston [Beccles]" means Geldeston, Norfolk, near Beccles, in another county—Suffolk.

The contents of the columns are sufficiently explained by the headings, except that in that headed "diameter," figures will be noticed of old-style type; these figures indicate the length of the sides of rectangular mouthed gauges. These measurements are all in inches.

The letter D denotes that a copy of the daily record has been received, that it is perfect throughout the year, and that the printed amount is the correct total of these daily entries. The letter M indicates that the gauge is read only on the first of each month.

A few entries of total rain will be found in italics—indicating uncertainty either as to possible overflow, or as to the measurement of snow.

An asterisk * denotes that the gauge was tested before erection, and a † that it has been visited and examined since. A note of interrogation (?) implies doubt, not necessarily error. ... indicates the absence of information.

In the column of altitudes several symbols are used, their meaning is as follows:—T, that a series of levels has been taken from the gauge to an Ordnance bench mark; T, that the height is estimated or ascertained approximately from the same source; L, that levels have been taken from the gauge to the sea, or to some datum other than Ordnance mean sea level; B, that the altitude has been taken by the barometer; and ?, that the height is uncertain.

COUNTY INDEX TO GENERAL TABLES.

ENGLAND.

Bedford 187
Berks 182
Buckingham 184
Cambridge..... 187
Cheshire..... 210
Cornwall 197
Cumberland 225
Derby..... 208
Devon 194
Dorset..... 193
Durham 223
Essex 188
Gloucester..... 200
Hampshire..... 180
Hereford 201
Hertford 183
Huntingdon 187
Kent 175
Lancashire 211
Leicester 205
Lincoln 206
Middlesex..... 170
Monmouth 227
Norfolk 191
Northampton 186
Northumberland ... 223
Nottingham 207
Oxford 185
Rutland..... 206
Shropshire..... 202
Somerset 198
Stafford 203
Suffolk 190
Surrey 171
Sussex 177
Warwick 204
Westmoreland..... 226
Wiltshire 192
Worcester..... 204
Yorkshire 215

WALES.

Anglesea 232
Brecknock..... 229
Cardigan 229
Carmarthen 228
Carnarvon..... 231
Denbigh..... 231
Flint 231
Glamorgan 227
Merioneth..... 231
Montgomery..... 230
Pembroke..... 229
Radnor 230

ISLANDS.

Isles of Scilly 232
Alderney ..... —
Guernsey 233
Jersey 232
Isle of Man 232
Sark ..... —

SCOTLAND.

Aberdeen 242
Argyll 239
Ayr..... 237
Banff 242
Berwick.. 235
Bute 239
Caithness 244
Clackmannan 240
Cromarty 243
Dumbarton 238
Dumfries 234
Edinburgh 236
Elgin (or Moray)... 242
Fife 240
Forfar 241
Haddington 236
Inverness 243
Kincardine 242
Kinross 240
Kirkcudbright..... 234
Lanark 237
Linlithgow 236
Nairn..... 242
Orkney 244
Peebles..... 235
Perth..... 240
Renfrew 237
Ross 243
Roxburgh 235
Selkirk..... 235
Shetland 245
Stirling 238
Sutherland 244
Wigton 234

IRELAND.

Antrim 250
Armagh..... 250
Carlow 248
Cavan..... 250
Clare 247
Cork 246
Donegal..... 251
Down..... 250
Dublin 248
Fermanagh..... —
Galway 249
Kerry..... 246
Kildare 248
Kilkenny 247
King's County 248
Leitrim 250
Limerick 247
Londonderry..... 251
Longford 249
Louth..... 249
Mayo 249
Meath 248
Monaghan..... 250
Queen's County 248
Roscommon 249
Sligo..... 249
Tipperary 247
Tyrone..... 251
Waterford.. 246
Westmeath 249
Wexford..... 247
Wicklow 248

ENGLAND AND WALES.

DIVISION I.—MIDDLESEX.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	MIDDLESEX.						
D	Hampton (Southwark W. W.)...	J.W.Restler, Esq.,C.E.	5	2 0	...	18·18	103
	Sunbury (Hanworth Road)	W. B. Bryan, Esq., C.E.	8	1 0	50 ⅄	21·65	162
	Teddington (Gomer House)	lateR.D.BlackmoreEsq.	5	0 10	26 ⅄	21·49	148
D	Staines (Belle Vue)	J. Gundry, Esq.....	5	1 0	51 ⅄	22·94	132
	,, (Cambria House)	C. Ashby, Esq.	5	1 0	50?	21·78	106
D	,, (Knowle Green).....	Miss Pellatt	5	5 2	...	24·44	126
	Twickenham (Hampton Road)..	T. Gale, Esq.	5	1 3	37 ⊺	20·03	132
	,, (Sewage Works) M	F. W. Pearce, Esq. ...	5	1 7	37 ⅄	18·44	...
D	Isleworth (Spring Grove House).	Mr. W. Farr	5	1 0	...	21·97	104
D	Chelsea (Pumping Station)	Sir A. R. Binnie, C.E...	8	1 0	19 ⅄	21·76	97
D	,, (St. Luke's Gardens) ...	TWE.Higgens,Esq. CE	5	1 0	25 ⅄	21·25	141
D	Isle of Dogs	Sir A. R. Binnie, C.E....	8	1 0	15 ⅄	20·55	136
D	Acton (Newburgh Road)	Miss Baker	5	1 0	86 ⊺	22·49	132
	Ealing (Public Buildings).....	C. Jones, Esq., C.E. ...	5	9 0	114	22·01	123
	,, (Gordon Road)	J. Box, Esq.	5	10 0	85 ⊺	20·51	124
	,, (Castle Bar Road).....	T. Simpson, Esq.	5	1 0	152	23·02	117
	Westminster (Spring Gardens)(1)	Sir A. R. Binnie, C.E...	8	66 4	95 ⅄	21·00	...
	,, (,, ,,)(2)	,, ,, ,, ...	12	65 11	95 ⅄	21·09	...
D	Kensington (Edith Road).....	G. von U. Searle, Esq.	5	0 10	16 ⊺	20·90	138
D	,, Museum	Genl. Festing, F.R.S..	8	0 8	27 ⅄	21·77	131
D	,, (Holland House) ...	Mr. C. Dixon	5	4 6	68 ⅄	21·31	128
D	,, (Addison Gardens)...	G. H. M. Whish, Esq..	5	1 1	23 ⊺	22·54	134
D	,, (Campden Hill).....	M.W.Hervey,Esq.,C.E.	8	4 10	130 ⅄	22·31	135
D	London (Westbourne Grove, W.)	A. P. Baker, Esq.	5	0 9	64 ⊺	22·32	130
D	,, (Strand, W.C.)	J. J. Steward, Esq. ..	5	45 0	80	25·99	139
	,, (Guildhall, E.C.)	D. J. Ross, Esq., C.E..	8	2 6	49 ⊺	22·75	107
	,, (,, ,,)	,, ,, ,, ...	8	51 0	98 ⊺	21·96	107

DIVISION I.—MIDDLESEX.—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	Height Above Ground in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	MIDDLESEX—(*con.*)							
D	London (Mile End, E.)	J. Metson, Esq.	5	10	0	...	24·51	114
D	,, (City Road)	J. Bigwood, Esq., M.P.	5	1	2	...	23·29	138
	,, (Old Street, E.C.)	The Royal Meteor. Soc.	5	1	0	70 T	22·44	146
	Perivale (Sewage Farm)	C. Jones, Esq., C.E.	5	12	0	56	21·43	117
	London (Regent's Pk. R. Bot. Soc.)	J. B. Sowerby, Esq.	8	1	0	126 ⅄	24·09	136
D	,, (Barrow Hill, N.W.)	M. W. Hervey, Esq., C.E.	5	3	4	190 ⅄	21·46	139
D	,, (Old Ford, E.)	Sir A. R. Binnie, C.E.	8	1	0	35 ⅄	21·10	123
D†	,, (Camden Square, N.W.)	late G. J. Symons, F.R.S	8	0	8	111 ⅄	22·54	144
†	,, (,, ,,) ..... M	,, ,, ,, ...	5	1	0	111 ⅄	22·24	...
D	Willesden Green (Strode Road)	Miss Lamport	5	1	0	150	25·07	160
D	Hampstead (Kidderpore Reserv.)	M. W. Hervey, Esq., C.E.	8	1	6	323 ⅄	26·25	120
D	,, (Branch Hill Lodge)	B. Woodd Smith, Esq.	8	0	10	380 T	24·76	134
†	,, (Squire's Mount)	late Rogers Field, Esq C.E	5	1	0	388 ⅄	22·01	117
	,, (The Pryors)	,, ,, ,, ,,	5	1	0	327 ⅄	22·98	119
	Lea Bridge	W. B. Bryan, Esq., C.E.	8	1	0	23 ⅄	20·37	139
	Upper Clapton	,, ,, ,,	8	1	0	...	22·80	131
D	Stoke Newington (Cazenove Rd.)	E. J. Bentley, Esq.	5	0	6	...	20·98	131
D	Finsbury Park (New River Works)	E. L. Morris, Esq., C.E.	5	1	0	101 ⅄	24·45	134
D	Stoke Newington (,, ,, ,,)	J. Francis, Esq., C.E.	5	4	0	105 ⅄	22·01	138
D	Highgate (North Hill)	E. J. Lovegrove, Esq., CE	5	4	6	302	24·82	135
†	Child's Hill (Helenslea)	A. J. Woodhouse, Esq.	5	1	6	245 T	23·60	135
	Harrow	R. Thornton, Esq.	5	1	0	215	23·42	143
	Crouch End (Aubrey Road)	W. B. Butler, Esq.	5	1	0	140	24·48	146
D	,, ,, (Fairfield Rd.) *garden*	Mrs. Sowerby Wallis	5	1	0	144 T	24·30	154
	,, ,, (,, ,,) *tennis ct.* M	,, ,, ,, ..	4	1	0	144 T	23·63	...
D	Hornsey (High Street)	E. J. Lovegrove, Esq., CE	6	3	2	97	26·01	127
D	Muswell Hill	Miss Abethell	5	0	10	310 T	27·02	136
D	,, ,, (Irish Corner-Sew. Farm)	E. J. Lovegrove, Esq., CE	8	4	8	216 ⅄	26·86	140
D	Hendon (Hillwood)	W. H. Kesteven, Esq.	5	1	0	191 ⅄	24·24	158
	Wealdstone House	Miss M. M. Cobb	5	0	11	236 T	22·91	...
D	,,	G. E. Eland, Esq.	5	1	0	180	22·13	137
D†	Finchley (Etchingham Park)	J. W. Scott, Esq.	5	1	2	295 T	24·69	141
D†	,, (,, ,,) ...	,, ,, ,, ...	8	1	3	295 T	24·80	141
D	Harrow Weald (Hill House)	A. Crossman, Esq.	5	3	6	280	25·40	174
D	Uxbridge (Harefield Park)	Mr. W. Batchelor	5	0	10	290	22·83	113
D	Friern Barnet (Sewage Works)	Baldwin Latham Esq CE	5	1	0	156 ⅄	21·93	129
D	Whetstone	,, ,, ,, ...	5	1	0	315 ⅄	23·79	134
D	Enfield (Old Park)	A. L. Ford, Esq.	5	1	9	156 T	23·84	135
D	,, (Southbury Road)	J. Francis, Esq., C.E.	5	4	0	109 T	21·91	139
	,, (Carisbrooke)	J. McEwan, Esq.	5	36	6	237 ⅄	22·91	140

DIVISION II.—SOUTH EASTERN COUNTIES.

	SURREY.							
D	Haslemere (Lower Street)	J. W. Penfold, Esq.	8	4	0	481 ⅄	33·39	143
D	,, (Hazelhurst)	T. P. Newman, Esq.	5	1	0	550 T	35·97	161
	,, (Grayswood Hill)	B. E. C. Chambers, Esq.	5	1	0	580 ⅄	29·80	...

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above SeaLevel	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	SURREY—(*con.*)						
D	Chiddingfold	A. F. Parbury, Esq....	5	1 0	174 T	29·12	144
	,, *Snowdon* M	,, ,, ,, ...	5	0 11	165	28·74	...
	,, (Beaconscroft)	Adl. Maclear	5	1 0	230 ⅄	27·93	157
	Dunsfold Rectory	Rev. W. H. Winn	5	1 0	170	26·87	...
	Haslemere (Weycombe)	G.B.Buckton,Esq.FRS.	5	1 0	562 ⅄	28·84	...
D	Hambledon (Matteryes)	J. Borrowman, Esq. ...	5	5 8	300	26·91	160
D	Witley (Fernside)	Mrs. Foster	5	1 0	350 T	26·62	142
	Hascombe Rectory	Rev. Canon Musgrave..	8	1 0	450 T	26·33	...
D	,, (Hall Place)	E. L. Rowcliffe, Esq...	8	1 5	273 ⅄	28·61	124
D	Cranleigh Common (Homefield Cott.)	A. F. Jones, Esq.	5	1 2	175 T	27·12	144
	,, ,,	W. Welch, Esq.	5	1 0	182 ⅄	27·07	...
	,, (County School)	The Royal Meteor. Soc.	5	1 0	232 ⅄	25·98	128
D	,, (Winterfold)	Mr. R. Turvey	8	3 6	603 T	28·46	124
	Ewhurst (Malquoits)	W. Webb, Esq.	5	1 6	400	27·25	145
D	,, (Coneyhurst)	Miss Ewart	8	1 0	561 T	27·54	154
D	,, (Heathside)	J. Sparkes, Esq.	5	1 6	600 ⅄	27·87	107
	,, (Woolpits)	Mr. H. W. Perrin	5	1 0	600	26·50	...
	Felbridge Place	Dr. C. H. Gatty	8	1 0	305	27·52	131
D	Capel (The Cottage)	J. Lee Jardine, Esq. ...	5	1 0	271 ⅄	26·49	142
D	Bramley (Grafham Grange)	J. C. McAndrew, Esq..	8	1 2	190	26·61	114
	Godalming (Northanger)	P. N. Graham, Esq. ...	5	1 0	400 T	28·52	...
D	,, (Hurtmore Lane)	O. H. Latter, Esq.	5	1 0	310 ⅄	27·05	165
D	Wonersh (Shamley Green)	Mr. A. Nash	5	1 0	400	26·43	139
D	Bramley (Cloverlea)	J. Bartlett, Esq.	5	1 0	147	27·07	151
D	Godalming (Tilthams)	A.E.Bigg-Wither,Esq.	5	1 0	130 ⅄	24·62	153
D	Abinger Rectory	F. C. Bayard, Esq. ...	5	1 0	381	28·35	148
D	,, Hall	the late Rt Hon Ld Farrer	8	2 0	320 T	27·06	142
D	Farnham (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1 0	308 ⅄	27·07	154
	,, (Dippen Hall)	M. Birkbeck, Esq.	5	1 0	345 T	30·29	169
	,, Castle	Mr. H. Dowding	8	1 0	300	27·26	...
D	,, (Short Heath Lodge)	Col. G. Chrystie	5	1 0	365 T	28·17	136
D	,, (Great Down, Seale)	Mrs. Kitchin	8	1 0	490	24·91	125
	Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	260	29·23	...
	,, (Woodcote)	Stanley Single, Esq...	5	1 0	310 T	28·17	136
	,, (West Street)	Mrs. W. A. Marsh	10	26 0	224 T	25·55	132
D	,, (The Denbies)	Mr. J. Beesley	5	0 9	610 T	29·26	132
D	Brockham (North Lodge)	H. R. Kempe, Esq. ...	8	0 9	...	26·28	109
D	Guildford (Epsom Road)	Miss Johnston	5	0 11	...	25·90	141
D	,, (Baskerville)	J. H. Billing, Esq. ...	5	1 1	215	25·56	135
D	,, (Craigie, Merrow)	Miss Lomer	5	0 9	250 T	24·74	128
D	Reigate (Hartswood)	R. W. Clutton, Esq.	5	1 0	174	23·52	130
D	,, (Woodhatch Lodge)	T. B. Haywood, Esq...	5	1 0	270 T	24·35	136
D	,, (Ringley Mead)	R. L. Hesketh, Esq. ...	5	1 0	345 T	26·49	148
D	Earlswood (Sewage Farm)	W. H. Prescott, Esq., CE	8	1 0	196 ⅄	25·17	113
D†	Red Hill (Oxford Road)	W. H. Tyndall, Esq....	8	1 0	300 ⅄	24·35	139
	Reigate (Aldersyde)	H. Rosling, Esq.	5	0 10	...	27·87	162
D	,, (Castle Grounds)	W. H. Prescott, Esq., CE	5	1 6	350 ⅄	26·88	133

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	SURREY—(*con.*)							
D	Reigate (The Briars)	F. C. Bayard, Esq.	5	1	0	430	24·37	129
D	,, (Doods)	G. E. Pym, Esq.	5	1	3	350 T	25·67	141
D	,, (Nutwood)	H. E. Gurney, Esq.	5	0	9	440 T	24·75	151
D	Nutfield Priory	Mrs. Fielden	8	1	2	468 T	24·01	164
	,, ,,	Mr. J. Moffat	8	1	2	431 T	25·75	159
D	,, (Holmesdale)	C. T. Maw, Esq.	8	2	0	500 T	23·70	141
	High Clandon	F. B. Eastwood, Esq.	5	0	6	500 T	26·63	...
D	Betchworth (The Holmes)	F. R. Rushton, Esq.	5	0	8	322 T	27·50	149
D	Dorking (High Ashurst)	The Hon. H. D. Ryder	5	10	0	550	28·09	126
D	Merstham (Rockshaw)	F. C. Bayard, Esq.	5	1	0	475	25·18	142
D	,, (Harp's Oak Cottage)	,, ,, ,,	5	1	0	454	27·44	152
D	Upper Gatton	F. Druce, Esq.	5	1	0	601	27·81	148
D	Bookham Lodge	Hon.Rev.HWaldegrave	8	0	7	140	23·01	146
D	Horsley, West	Sir H. E. Roscoe, F.R.S.	7	0	6	240	28·56	105
	,, Towers	Capt.HonLFKing-Noel	8	1	2	300 T	26·00	...
	,, (Woodcote Lodge)	Sir H. E. Roscoe, F.R.S.	7	0	6	650	30·88	...
D	Pirbright Camp	Sergt. Elwick	5	1	0	201 T	24·15	125
	Leatherhead (Downside)	A. Tate, Esq.	5	1	0	250	25·48	133
D	Chaldon Rectory	F. C. Bayard, Esq.	5	1	0	542	27·79	132
D	Chipstead (Shabden Park)	,, ,, ,,	5	1	0	550	27·34	145
D	Frimley Green	F. W. Talbot, Esq.	5	7	0	220 T	23·12	140
D	,, ,, (Ridgemount)	A. Haviland, Esq.	5	0	9	350	26·11	155
D	Caterham Asylum	Dr. Elliot	5	1	0	610 T	29·61	131
D	Coulsdon Grange	F. C. Bayard, Esq.	5	1	4	525	23·86	141
	Warlingham Vicarage	,, ,, ,,	5	1	0	614	28·24	...
D	Ashtead (Meadow Bank)	H. Belfield, Esq.	5	1	0	220 T	23·20	150
D	Kenley (Hazelea)	Mrs. Carr Dyer	5	1	0	282	26·23	149
D	Ashtead (D'Abernon Chase)	Sir W. Vincent, Bart.	5	1	0	280 T	23·46	135
D	Pyrford (Pyrford Croft)	H.W.PagePhillips,Esq.	5	1	6	...	27·84	175
D	Horsell (Lindisaye)	H. Horncastle, Esq.	5	4	2	130 T	23·12	140
	,, (,,) ....M	,, ,, ,,	5	0	9	130 T	23·19	...
D	Oxshott	W. H. Dines, Esq.	5	1	0	206 T	21·86	135
	Banstead (Burgh Heath Res.)	WVaux-GrahamEsqCE	5	1	0	570 T	26·33	...
	,, (The Larches)	Rev. C. J. Taylor	8	1	0	488 T	25·94	160
D	Camberley (Waverley Court)	Mr. J. Bryan	5	1	0	340 B	24·71	145
	Chelsham (Fairchildes)	A. S. Daniell, Esq.	8	1	0	600 T	25·99	...
	,, (,,)	Mr. G. Mansfield	5	0	10	600 T	27·47	...
D	Purley (Tudor Cottage)	F. C. Bayard, Esq.	5	1	0	216 T	26·11	149
D	Chobham (The Elms)	Mrs. Brown	5	2	3	98	26·61	143
D	Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1	0	200 T	23·96	157
D	Windlesham (Erlwood)	E. S. Currey, Esq.	5	1	0	216 T	22·42	140
D	Weybridge (Field Place)	G. A. Yool, Esq.	5	1	0	119 T	22·71	132
	,, (,, ,,) ....M	,, ,, ,,	5	1	0	110	23·71	...
	,, (Heath Field)	Miss A. T. Gardiner	5	1	0	100	21·50	165
D	,, (West Oaks)	A. Whittet, Esq.	5	1	0	36 T	22·59	153
D	Esher (Sewage Works)	F. C. Bayard, Esq.	5	1	0	42 T	22·32	157
D	Addington (Hares Bank)	,, ,, ,,	8	1	0	331 T	26·99	176
D	,, (Park Farm)	,, ,, ,,	5	1	0	268 T	26·93	144

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	SURREY—(*con.*)						
D	Addington Hills	F. C. Bayard, Esq. ...	8	0 9	473 ↑	24·50	172
D	Wallington	,, ,, ,, ...	5	4 1	140 ↑	22·62	140
D	Sutton (Sewage Works)	C. C. Smith, Esq.	8	1 0	94 ↑	22·76	140
D	,, (Water Works)	W Vaux-Graham Esq CE	5	1 0	150 T	23·01	168
D	Carshalton (Sewage Works)	Baldwin Latham Esq CE	5	1 0	118	21·80	133
	Beddington (Riverside)	The Royal Meteor. Soc.	5	1 0	120	22·61	143
	Croydon (Heathfield Road)	J. Glaisher, Esq., F.R.S.	8	0 5	185	23·02	126
D	,, (Duppas House)	Baldwin Latham Esq CE	8	1 0	158	23·37	172
D	,, (Waddon House)	P. Crowley, Esq.	5	1 0	156 ↑	22·27	149
D	,, (Waddon New Road)	G. Corden, Esq.	5	1 0	146	23·04	146
D	,, (The Whitgift)	F. C. Bayard, Esq. ...	5	1 0	191 ↑	23·17	154
D	,, (Woburn Road)	,, ,, ,,	5	1 1	178	23·61	165
D	,, (Brimstone Sew. Works)	,, ,, ,,	5	1 0	130 ↑	20·03	119
D	,, (Park Hill Rise)	H. F. Parsons, Esq., M.D.	5	1 3	240	23·44	157
D	,, (Windmill Road)	A. Malden, Esq.	5	1 6	180 ↑	22·04	134
D	Worcester Park (Parkside)	T. Hill, Esq.	5	1 0	80	23·17	142
D	New Malden (Sewage Works)	F. C. Bayard, Esq. ...	5	1 0	45	18·21?	124
	Morden	Miss R. Hames	...	...	...	22·52	134
D	Thornton Heath (Thornton Rd.)	A. Wright, Esq.	8	0 9	130	20·86	104
D	Thames Ditton (Weston Green)	Mr. T. H. Potter	8	1 0	35 T	21·72	160
	,, ,, (Giggs Hill)	W. A. Hardwick, Esq.	5	1 2	35 T	21·55	...
	Surbiton (Seething Wells)	R. Hack, Esq., C.E. ...	10	0 6	25	21·38	133
D	,, (Vronvelin)	F. Barclay, Esq.	5	1 0	50	21·24	140
	West Molesey	R. Hack, Esq., C.E.	5	1 0	32 ↑	21·26	137
D	St. Ann's Heath (Sanatorium)	Rev. J. Peck	8	1 1	120	22·71	124
D	Kingston Sewage Works	F. C. Bayard, Esq. ...	5	1 0	25	22·98	130
D	Wimbledon (Mount Ararat)	T. Devas, Esq.	12	3 0	157 T	22·32	161
	,, (Raynes Park)	C. H. Cooper, Esq.	5	1 3	48 ↑	23·31	184
D	,, (Sewage Works)	,, ,, ,,	5	1 0	58 ↑	20·19	164
D	,, Common (Richmond Ho.)	E. Rawlings, Esq.	5	1 3	175 ↑	22·14	156
	,, Park (Woodhouse)	A. E. Bateman, Esq.	5	1 0	150	23·27	122
D	South Norwood (Apsley Road)	F. C. Bayard, Esq. ...	5	1 0	125	19·67	134
D	West Norwood (Thornlaw Road)	W. Marriott, Esq.	5	1 0	221	22·04	156
	Streatham (Woodfield Avenue)	F. Jordan, Esq.	5	1 0	120 T	19·82	159
D	Dulwich Wood Park	H. V. Caldicott, Esq.	5	1 2	276	20·58	126
D	Wandsworth Com. (Patten Rd.)	F. C. Bayard, Esq. ...	5	1 0	100	21·59	142
	Egham (Coopers Hill)	The Meteor. Council ...	8	1 1	280	22·21	173
	Putney Heath	R. Hack, Esq., C.E.	5	1 6	180 ↑	20·39	152
D	Kew Observatory	The Kew Committee ...	11	1 9	19 ↑	20·85	135
	Putney Vale Cemetery	Mr. F. Pain	5	1 0	98 T	20·25	133
D	Clapham Park (New Park Road)	D. W. Horner, Esq. ...	5	1 3	128 ↑	19·99	137
	Brixton (Acre Lane)	The Meteor. Council ...	8	1 0	77 T	22·03	136
D	Nunhead (Southwark W. W.)	J. W. Restler, Esq., C.E.	5	4 0	176	18·22	118
D	Battersea Creek (York Road)	Sir A. R. Binnie, C.E	8	26 9	41 ↑	18·09	124
D	,, (Southwark W. W.)	J. W. Restler, Esq., C.E.	5	3 6	21	18·31	127
D	Vauxhall Cross (Wandsworth Rd.)	Sir A. R. Binnie, C.E...	8	30 5	48 ↑	18·99	121

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which '01 or more fell.
			ft. in.	feet.	inches.	
KENT.						
Dungeness	The Meteor. Council	8	1 3	75 ↑	18·12	137
D Hawkhurst (Sandhurst Rectory)	Rev. G. Ridout	5	1 3	208 ⇈	26·79	131
Dymchurch Rectory	Rev. C. E. Plater	8	1 6	5	21·77	...
Tenterden (Summerhill)	the late Rev. A. Wilkin	8	1 0	149 ⇈	29·17	162
D Benenden (Pullington)	H. Neve, Esq.	5	1 0	330	26·16	155
D ,, (East End)	J. Ellis Mace, Esq.	8	1 2	193 ⇈	25·40	145
D Tenterden	,, ,, ,,	8	1 5	190 ⇈	24·55	176
D ,, *Snowdon*	,, ,, ,,	8	1 5	190 ⇈	24·17	158
,, (West Cross)	J. Mann Mace, Esq.	5	1 0	...	24·65	135
,, (Little Westwell)	W. Hilder, Esq.	5	1 0	140 ↑	25·24	...
,, (Ashbourne Mills)	A. Pinyon, Esq.	5	1 0	45	25·58	...
D Woodchurch	Rev. A. Welch	5	5 0	107 ↑	23·00	113
D† Hythe	Messrs. Mackeson & Co.	8	0 6	12 ↑	22·41	170
,, (Sandling Park)	Lawrence Hardy Esq MP	...	...	...	24·02	...
D ,, (Saltwood)	Rev. H. M. Spooner	8	2 6	200 ↑	22·51	137
† ,, (Hillhurst Farm)	G. F. Deedes, Esq.	5	2 0	280 ↑	25·16	165
D Sandgate	A. R. Bowles, Esq., C.E.	5	1 0	52 ⇈	23·45	115
Cranbrook (Swattenden)	Miss Appach	8	1 2	350 ↑	24·98	124
† ,, (Hartley)	G. Pile, Esq.	5	4 0	405 ↑	27·31	146
Goudhurst (Scotney Castle)	E. W. Hussey, Esq.	5	4 4	203 ⇈	25·97	...
†Folkestone (Sanatorium)	M. Yunge Bateman, Esq.	5	1 0	110	23·48	129
† ,, (Radnor Park)	J. W. Stainer, Esq.	5	4 0	129 ↑	23·97	147
D† ,, (Cherry Gardens)	H. Turner, Esq.	8	3 6	140 ⇈	25·54	152
D† ,, (Capel Lodge)	E. Norton, Esq., M.D.	5	1 0	480 ↑	26·60	154
D ,, (Lower Standen, Capel)	H. Turner, Esq.	5	2 11	250	26·84	148
D Hythe (Frogholt)	G. Lipscomb, Esq.	5	1 0	186 ⇈	25·49	149
† ,, (Paddlesworth)	Mrs. Dixon	8	1 0	608 ⇈	35·49	...
D† Dover (Water Works)	H. E. Stilgoe, Esq., C.E.	5	1 6	199 ↑	24·34	119
†Kearsney Abbey	Mr. E. Cartwright	5	1 0	94 ↑	29·12	154
Acrise (Great Shuttlesfield)	Mr. G. C. Woollett	...	...	...	26·46	...
,, Place	Miss Mackinnon	5	1 0	484 ⇈	31·50	...
D† ,, (School House)	Mr. G. C. Woollett	8	1 0	504 ⇈	36·50	154
D Ashurst (Stone Ness)	S. Poyntz Wright, Esq.	5	1 0	320 ↑	27·19	145
D Tunbridge Wells (Belvedere Ter.)	Rev. G. E. Alexander	5	1 0	410	26·21	142
,, ,, (Bredbury)	F. G. Smart, Esq.	5	1 0	416 ↑	28·00	157
D Cranbrook (Camden Lodge)	Mr. A. Habbitts	5	1 0	276 ↑	25·48	129
D Ashford (Bethersden)	W. H. Mold, Esq.	5	4 0	111 ⇈	23·25	147
D ,, (Beavor Green)	T. Nickalls, Esq.	5	1 0	155 ↑	25·86	143
Horsmonden (Broad Ford House)	Col. Courthope, C.B.	5	2 6	101 ↑	32·65	166
D Tunbridge Wells (Etherton Hill)	E. W. Winton, Esq.	5	1 5	276 ⇈	25·52	113
D ,, ,, (Pembury)	T. E. W. Mellor, Esq. C.E.	8	1 8	181 ⇈	23·11	127
Staplehurst (Saynden Farm)	J. Norris, Esq.	5	1 4	310 ↑	26·54	103
D Chiddingstone Rectory	Rev. J. T. Pearse	5	1 0	170	25·96	137
Tunbridge (Penshurst Place)	Mr. F. Bridger	5	1 0	...	27·40	...
D ,, (,, Park)	Mr. J. M. Sturgess	5	0 4	265 ↑	28·56	138
,, (Primrose Hill)	G. I. Kimmins, Esq.	5	0 10	175 ⇈	26·67	129
D ,, (Beech Hurst)	W. C. Punnett, Esq.	5	1 6	102 ⇈	27·64	135
,, (,, ,,)*Snowdon*	,, ,, ,,	5	1 6	102 ⇈	27·34	134

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1899 inches.	Days on which '01 or more fell.
	KENT—(*con.*)							
	Tunbridge (Beech Hurst) .....M	W. C. Punnett, Esq....	8	4	0	105 ⅄	27·28	...
D	Ashford (Westwell)	Rev. H. H. D'Ombrain	5	1	0	272	25·43	133
D	Edenbridge (Falconhurst)	Rt.Hon.J.G.Talbot,MP	5	1	0	300	28·93	124
	Deal and Walmer W.W.	A. Mantle, Esq.	12	1	0	100 ⅄	26·29	142
	,, ,, ,, ,, ...	,, ,, ...	5	1	0	100 ⅄	26·31	144
	Wye (Bilting)	Mr. A. H. Briggs	6	1	3	158	27·12	135
	Hadlow	F. W. E. Shrivell, Esq.	5	2	0	100	24·64	...
D	Maidstone (Linton Park)	Mr. C. Pratt	5	1	0	...	23·86	128
D	,, (Lower Tovil)	Lawrence Green, Esq..	5	1	0	30 L	22·13	152
	,, (Long Rede, Barming)	Rev. T. W. Carr	8	3	6	280 T	24·82	110
	,, (The Vicarage)	Rev. Canon Joy	8	1	6	...	23·26	...
D	,, (Mount House)	C. A. Case, Esq.....	5	1	0	160 T	25·32	137
D	,, (Bearsted)	Rev. A. L. Brine	5	1	1	130 ?	25·18	179
	Eastry (Great Walton)	W. V. Lister, Esq. ...	5	1	0	25 ⅄	25·85	150
D	East Malling (Broadwater)	C. B. Mercer, Esq. ...	5	1	6	169	29·29	145
D	West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1	0	...	27·16	149
D	Debtling	R. Cooke, Esq.	5	1	2	330 T	24·01	164
	Aylesford (Preston Hall)	Mr. W. Jarman.....	5	1	6	80	26·29	...
	Sheldwich	Rev. B. S. Malden.....	5	1	0	250 T	27·20	142
D†	Selling (Harefield).....	S. Neame, Esq.	5	2	6	217 T	27·40	165
D	Westerham (The Fishponds) ...	F. C. Bayard, Esq.....	5	1	0	380	24·48	102
D	,, (Hill Estate)	,, ,, ,, ...	5	1	0	539	27·47	129
D	Canterbury (Burgate Street) ...	B. Rigden, Esq.....	5	9	6	58 ⅄	25·02	126
D	,, (Irrigation Works)..	A.H.Campbell,Esq.,CE	5	0	5	15 ⅄	24·75	163
D	Seven Oaks (River Hill)	the late J.T.Rogers,Esq.	8	4	0	535	26·02	141
†	,, (The Rectory)	Rev. T. S. Curteis.....	5	1	0	497	25·91	...
D	,, (St. John's Hill) ...	F. C. Bayard, Esq. ...	5	1	10	380	26·40	153
D†	,, (Riverhead Vic.) ...	Rev. Canon Murdoch...	5	0	6	300 T	25·48	121
	,, (Chevening Gardens)	Mr. J. C. Sutton	5	1	0	360	28·55	...
D	,, (Kemsing)	T. Stonham, Esq.	5	6	0	300	27·15	139
D	Sittingbourne (Sharsted Court).	A. J. Rayfield, Esq. ...	5	1	0	276 T	22·92	109
	Ospringe (Lorenden).....	W. C. Stunt, Esq. ...	5	1	4	180 ?	25·02	140
	Knockholt (Kent Waterworks)..	F. C. Bayard Esq.....	5	1	0	785	27·39	...
	,, (,, ,,)..	,, ,, ,, ...	5	24	6	812	20·71	...
D	Keston (Bradfield)	A. Hill, Esq.	5	1	0	350 T	23·68	139
D	Farnborough (Feniton).....	Miss Percy	5	1	0	376 T	24·47	169
D	Ash (Pettings House).....*new g.*	C. J. G. Hulkes, Esq...	5	1	0	540 T	26·72	149
	Herne Bay (Eddington)	Miss Hawksworth	5	1	0	4 ?	22·69	...
	,, ,, (Water Works).....	J. W. Thorpe, Esq. ...	5	0	6	122 ⅄	20·65	...
D	Birchington (Thor)	Mr. W. H. Euden	5	1	0	40 T	22·19	140
D	Reculver (Brook)	A. Collard, Esq.....	5	6	3	40 T	20·93	147
D	Hayes Common (The Warren)...	Miss Akers	5	1	0	296	25·53	147
D	West Wickham (Wickham Court)	F. C. Bayard, Esq. ...	5	1	2	300	26·11	137
D	Orpington (Kent Waterworks)...	,, ,, ,, ...	5	1	0	220	23·78	132
	Farningham Hill	,, ,, ,, ...	5	3	0	300	26·57	...
	Chatham (Luton W.W.)	W. Coles Finch, Esq....	5	3	0	88 ⅄	21·56	133
	,, ...	The Meteor. Council ...	8	1	3	137	23·04	121

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	KENT—(*con.*)						
	Rochester (Rede Court)	The Meteor. Council	5	1 0	225	22·23	145
D	,, (Knights Place)	J. Pye, Esq.	5	2 3	320	25·68	167
D	St. Peter's ..... *new g.*	Rev. H. C. V. Snowden	5	0 6	140 ⅄	23·52	179
	White Ness (Kingsgate)	Mr. R. Silk	5	1 0	98 L	20·87	125
D	Margate (Apsley House)	J. Stokes, Esq.	5	1 0	84 L	22·39	149
D	,, (,, ,,)*Snowdon*	,, ,,	5	1 5	84 L	22·24	149
D	Sheppey (Newhouse, Leysdown)	C. A. Till, Esq.	5	1 2	50	21·62	137
	Strood Water Works	W. Banks, Esq., C.E.	5	3 0	112	21·97	127
D	Frindsbury (Manor Farm)	F. Baker, Esq.	5	1 0	100	22·97	125
D	Bromley Common (Elmfield)	Rev. J. P. Faunthorpe	5	0 9	235 ⅄	23·47	142
D	Bickley (Elmhurst)	C. I. Whittington, Esq.	8	3 2	250 T	23·58	150
	,, (The High Field)	J. Batten, Esq.	5	1 2	295	24·17	132
D	Bromley (The Palace)	F. C. Bayard, Esq.	5	1 0	187	22·89	131
	,, (Widmore Road)	Miss Scott	5	1 0	230	22·67	127
	Chislehurst (Southlaund)	T. O. Hutton, Esq.	5	1 2	...	23·51	...
	,, (Foxbury)	H. F. Tiarks, Esq.	8	4 6	250	24·44	161
D	,, (Hawkwood)	F. C. Bayard, Esq.	5	1 0	300	21·61	129
D	Southfleet (Kent Waterworks)	,, ,, ,,	5	1 0	82	21·67	120
D	Wilmington (,, ,,)	,, ,, ,,	5	1 0	25	21·55	136
D	Sidcup (Hatherley Road)	Dr. L. Burrell	5	1 2	170 T	23·41	160
D	,, (Park Road)	S. A. Sharman, Esq.	5	1 0	230	22·87	152
D	Rochester (Abbot's Court, Hoo)	Warwick Stunt, Esq.	5	2 0	10	20·51	123
	Beckenham (Wickham Road)	E. Scovell, Esq.	5	1 2	156 T	24·01	142
D	,, (Oakwood Avenue)	F. C. Bayard, Esq.	5	1 0	184	24·28	155
	Sydenham (Gorrevod)	Mrs. Stephenson	5	1 0	...	21·75	...
D	Forest Hill (Newfield House)	F. C. Bayard, Esq.	5	1 0	220	21·58	142
D	,, (Barr Beacon)	J. W. Restler, Esq., C.E.	5	1 0	344 ⅄	21·39	168
D	Dartford (West Hill House)	F. C. Bayard, Esq.	5	1 3	100	22·81	101
D	Higham (Oakleigh)	C. Lake, Esq.	8	1 2	25	19·61	106
D	Rochester (Cooling)	Mr. J. Filmer	5	1 0	10	21·73	118
D	,, (Hoo St. Mary)	H. Pye, Junr., Esq.	5	5 6	146 T	21·05	143
D	,, (Cliffe Lodge)	E. W. Wood, Esq.	5	1 0	30	23·84	125
D	Eltham (Cliefden)	Miss Yeatman	5	0 10	198 T	22·37	149
D	,, (High Street)	F. C. Bayard, Esq.	5	1 0	245	21·94	138
	Greenwich (Royal Observatory)	W. H. Christie, Esq. C.B.	8	0 5	155 T	22·33	141
D	Deptford (Kent Waterworks)	F. C. Bayard, Esq.	5	1 0	20	19·75	123
D	,, (Pumping Station)	Sir A. R. Binnie, C.E.	10	1 6	15	25·18	137
D	Erith (Crossness) .....No. 3	,, ,, ,,	14	0 6	16 ⅄	18·83	132
	WEST SUSSEX.						
	Bognor	The Royal Meteor. Soc.	...	...	...	22·77	116
	,, (Lidsey Lodge)	H. Neale, Esq.	8	1 2	...	24·22	114
	Littlehampton (Surrey House)	A. J. White, Esq.	5	1 8	20 T	24·63	...
D	Worthing (Ellesmere)	C. Kelly, Esq., M.D.	5	1 0	26 ⅄	26·23	144
	,, (,,)	,, ,, ,,	8	...	...	25·90	...
D	West Thorney	H. Padwick, Esq.	5	1 0	23 T	25·26	114
D	Arundel (Yapton)	W. A. Hounsom, Esq.	5	1 0	24 ⅄	23·44	123
	,, (,, Drove Farm)	,, ,, ,,	5	1 0	14 T	22·30	127

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	WEST SUSSEX—(*con.*)							
	Angmering	Rev. J. B. Orme	5	1	3	44	23·06	...
D	Chichester (Sewage Works)	Baldwin Latham Esq CE	5	1	0	10 ⇈	22·60	101
	,, (Westgate Meadow)	Dr. Tyacke	8	0	6	40	23·62	137
D	,, (Oaklands)	G. A. Tyacke, Esq.	8	0	9	80 ⇈	24·15	135
D	Arundel (Clapham Rectory)	Rev. A. H. S. Barwell	5	1	0	150 T	26·86	152
	,, (Patching)	J. Drewitt, Esq.	5	1	0	180	26·08	140
D	,, (,,)	Mrs. Joad	5	0	10	130 T	26·87	145
D	West Bourne [Emsworth]	Rev. L. B. Birkett	5	0	8	50 T	26·80	151
	West Stoke Rectory	Rev. W. F. Shaw	5	1	0	176 T	26·99	124
D†	Steyning	Col. Ingram	5	1	0	80 T	30·61	106
	,, (Crescent Road)	Mr. H. J. Hide	5	1	0	80 T	29·28	100
D	Chichester (Forest Side Vic.)	Mrs. J. C. Parson	5	1	0	341	27·93	117
D	,, (Watergate)	W. M. Christy, Esq.	5	1	0	240 T	29·44	149
	,, (West Dean Park)	Mr. W. H. Smith	10	1	6	190	31·15	115
	,, (Charlton)	C. O. Newman, Esq.	5		...	190	31·14	120
†	,, (Chilgrove)	J. W. Woods, Esq.	5	0	6	284 T	29·92	...
D	Compton [Petersfield]	Rev. H. M. Langdale	5	1	0	255 ⇈	32·99	150
D	Petworth Park	Mr. E. W. Pull	5	1	0	182	34·24	145
	Cowfold (The Laurels)	Mr. S. Ford	5	1	6	273	26·80	...
D	Tillington (River House)	R. Stanley Clark, Esq.	8	1	2	230 T	28·34	178
D	Midhurst (St. Ann's)	Genl. Paxton	8	1	8	120 ⇈	30·35	142
D	,, (Borden Wood)	E. Lamb, Esq.	8	1	0	260 T	31·85	147
	,, (Lynch Farm)	G. Eames, Esq.	5	0	6	160 T	33·14	104
	,, (Hollycombe)	J. C. Hawkshaw, Esq.	8	6	6	550	35·19	...
D	Blackdown House [Haslemere]	F. Philipson Stow, Esq.	5	1	10	488 T	26·59	108
D	Horsham (Selehurst)	W. E. Hubbard, Esq.	5	1	0	305	26·24	129
	,, (Manor House)	H. Padwick, Esq.	8	0	10	140 T	28·67	119
D	,, (Wimblehurst)	Miss F. E. Allcard	5	1	0	200 T	25·40	152
	Lynchmere (Shottesmill)	Rev. C. Holland	5	4	0	...	32·16	112
	Crawley (Oak Lodge)	A. Thomson, Esq.	5	0	10	...	27·78	...
	EAST SUSSEX.							
†	Beachy Head	Miss Brodie Hall	5	1	0	515 T	19·17	...
	East Dean (Hill Side)	E. N. Smith, Esq.	5	1	0	250 T	25·64	119
	Eastbourne (Wilmington Square)	R. Sheward, Esq.	8	0	6	39	27·98	144
	,, (Burlington Place)	Miss K. A. Orr	5	1	3	20	27·64	...
D†	,, (Osborne House)	Miss Hood	5	1	0	12 T	28·26	136
D	,, (Glenthorne)	Miss Woodd	8	1	6	86 ⇈	28·14	145
	,, (Sussex Gardens)	J. C. Wright, Esq.	5	0	4	15	28·43	...
D†	,, (Cemetery)	Miss Brodie Hall	5	4	0	160 ⇈	26·45	103
	Bishopstone	R. R. Davis, Esq.	5	0	8	...	23·29	119
D†	Jevington (Church Farm)	E. C. Stileman, Esq., C.E.	8	0	9	261 ⇈	25·33	135
D†	Litlington (Plough & Harrow Inn)	,, ,, ,,	8	1	0	19 ⇈	28·55	157
	Brighton (Kemp Town)	Mr. A. Wyatt	5	1	0	82	20·27	116
D†	,, (Old Steine)	A. Newsholme, Esq., MD	5	1	0	32 T	23·47	134
	,, (Abattoir)	,, ,, ,,	5	1	0	...	22·30	124
D	,, (W. W. Goldstone Bottm)	J. Johnston, Esq., C.E.	8	0	7	140 ⇈	23·35	134

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
EAST SUSSEX—(*con.*)						
D Brighton (W. W., Lewes Road)..	J. Johnston, Esq., C.E.	8	3 6	88 ⅄	24·02	126
D ,, (,, Patcham).....	,, ,, ,,	5	1 6	207 ⅄	25·83	130
D ,, (,, Race Hill) ...	,, ,, ,,	8	1 0	466 ⅄	26·83	125
Bexhill (The Grange)	Miss A. Scrivens	8	4 6	140 T	25·31	...
D ,, (Millfield)	,, ,, ...	5	1 0	135	25·73	161
St. Leonards (West Marina) ...	H. Colborne, Esq.....	8	1 0	21 ⅄	26·18	140
,, ,, (Gensing Gardens).	,, ,, ,, ...	8	1 0	179 ⅄	25·76	142
Selmeston Vicarage	Rev. W. D. Parish ...	...	...	...	28·40	...
D†Iford (Swanborough).....	R. H. Verrall, Esq. ...	5	3 10	115 T	29·29	135
,, ...	Miss Robinson	5	1 2	56 T	25·18	111
D Hailsham.....	Rev. F. Clyde Harvey..	5	1 0	105	28·43	121
D†Falmer.....	R. R. Verrall, Esq. ...	5	3 0	312 ⅄	25·81	147
D Lewes (Fairhall, Southover).....	Miss Mathew	5	1 0	45	27·41	131
D† ,, (Bedford Lodge).....	Mrs. Kemp.....	5	1 0	85 T	21·17	138
D† ,, (Saxonbury)	A. Hillman, Esq.	5	1 0	75 T	26·06	131
D Hastings (Newgate Res.)	P. H. Palmer, Esq., CE	5	0 10	240	25·32	125
† ,, (High Beech Hollington)	Miss Lewis	5	1 0	320 T	26·02	128
D ,, (Guestling Rectory) ...	Rev. E. N. Bloomfield.	5	1 5	125 ⅄	27·86	138
D Clayton Rectory.....	Rev. T. H. R. Shand...	5	1 1	201 T	30·22	137
Hurstpierpoint (Danny Park) ...	Mr. J. Bunney	8	1 3	180	28·12	...
D ,, (The College) ...	C. Marsh, Esq.	5	1 0	100 T	25·22	125
D Winchelsea (The Friars)	the late Miss Stileman.	5	1 2	115 T	23·21	122
D Battle (Whatlington)	Miss H. Gripper.....	5	1 3	90 T	26·51	127
†Isfield Place .....*old g.*	Major H. King	5	1 0	41 ⅄	24·09	...
Playden (East Guldeford Lane).	G. Pile, Esq.	5	1 0	...	23·18	...
D Burgess Hill (Silverdale Road) .	F. H. Phillips, Esq. ...	8	0 10	162 T	26·79	148
,, ,, (Ote Hall)	Mrs. Woods.....	5	1 6	...	28·69	140
D Heathfield (Summerlands)	A. Brown, Esq.	5	1 0	500 T	28·99	130
,, (Tottingworth Park).	Mr. J. Masson.....	5	0 10	500 T	28·88	...
D Uckfield House	J. J. S. Driberg, Esq...	8	0 10	200 B	24·66	123
D ,, (Sheffield Park)	Mr. W. T. Moore	5	1 0	...	24·31	125
D Haywards Heath	C.E. Saunders, Esq. MD	5	1 1	281	26·01	111
D Buxted Park	Mr. H. C. Prinsep.....	8	1 0	94	25·30	145
,, (Strawberry Hall)	C. Rintoul, Esq.....	5	1 0	180	24·48	123
D†Maresfield (Forest Lodge).....	Capt. W. Noble	8	1 2	247 ⅄	27·00	147
Cuckfield (Workhouse)	The Meteor. Council ...	...	1 0	389	25·98	126
Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1 0	188 ⅄	27·96	147
D Nutley Vicarage	Rev. H. J. Peckham ...	5	1 0	386 T	26·81	156
D†Crowborough	J. J. S. Driberg, Esq...	8	0 8	796 ⅄	31·96	161
Haywards Heath (Brook House)	H. R. G. Clarke, Esq..	5	1 0	240	28·53	120
D Balcombe Place	Mr. Warren	8	1 3	289 T	31·58	145
Ticehurst	Mr. Jordan	5	4 9	423 ⅄	26·38	128
D ,, (Whiligh).....	Col. Courthope, C.B....	5	1 0	440	28·60	155
D Rotherfield (Bonnie View)	A. S. Chapman, Esq...	5	1 0	500 T	28·71	141
D Wadhurst (Kirkstone)	J.C. Lane Andrews, Esq.	5	0 10	500 T	30·03	137
D ,, (Lower Cousley Wood)	F. Wilkin, Esq.....	5	1 0	416 ⅄	27·42	141
Frant (Eridge Castle)	Mr. A. Wilson	5	2 0	400	33·18	110
D Crawley Down (The Grange) ...	T. H. W. Buckley, Esq.	5	0 9	430	30·61	137
Forest Row.....	The Meteor. Council ...	5	1 6	620	28·89	122

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	EAST SUSSEX—(*con.*)							
D	Worth (South Hill)	P. E. Ravenshaw, Esq.	8	1	6	558 T	32·22	152
D	East Grinstead Station	Mr. G. Mitchell	8	2	2	410 L	29·63	137
	,, ,, (Halsford Park)	W. V. K. Stenning, Esq.	5	1	6	365 ⅄	31·01	131
	HAMPSHIRE.							
	ISLE OF WIGHT.							
D	Ventnor	J. S. Ineson, Esq.	10	2	0	70	22·32	130
	,, (Consumption Hospital)	The Royal Meteor. Soc.	5	1	0	75	24·04	127
D*	Bonchurch (The Lilies)	Mr. W. C. Moseley	5	1	0	300 T	23·27	138
D	Sandown (Belgrave House)	W. E. Green, Esq.	5	1	0	105	30·79	152
	Brading Vicarage	Rev. E. Summers	5	1	6	50 ?	27·18	...
D	Totland Bay (Wilmington)	J. Dover, Esq.	8	1	0	142 ⅄	22·05	135
D	Carisbrooke (Rainsgrove)	BaldwinLatham EsqCE	5	1	0	180	26·97	134
D	,, (Rowborough)	,, ,, ,,	5	1	0	193	27·72	134
D	Newport (Castle Hold)	A. Le Messurier, Esq.	5	1	0	45	25·29	137
	Yarmouth Schools	Mr. J. E. Furmage	5	1	0	8	19·89	122
D	Ryde (Thornbrough)	Col. Clarke	5	1	0	143 T	25·39	148
D	,, (New Lodge)	Capt. W. A. Dobie	5	1	1	147	25·87	137
D	,,	Mr. T. C. Flower	12	9	0	35	29·66	115
D	Wootton (Fernhill)	C. G. Brodie, Esq.	8	0	6	118 T	25·53	123
D†	Osborne (Newbarn Cottage)	R. Scott, Esq.	8	0	8	172 ⅄	24·62	167
	Bournemouth(Clarendon Court)	G. Galpin, Esq.	5	1	0	110 T	25·24	...
D	,, (WellingtonHouse)	Messrs. Primavesi Bros	5	1	0	100 T	26·95	142
D	,, (Kempsey,BathRd.)	E. L. M. Colvile, Esq.	8	1	0	121 T	27·18	161
	,, (Water Tower)	Royal Meteor. Soc.	...	...		41	26·95	142
	Milford-on-Sea	R. Bruce, Esq.	5	2	6	40	21·75	...
D	Christchurch (Mudeford)	F. H. D. Eyre, Esq.	5	0	3	15 L	21·70	134
D	,, (Winkton Lodge)	Miss Lassell	5	0	9	34 ⅄	21·92	130
D	,, (Heron Court)	Earl of Malmesbury	8	0	6	25	25·75	115
	Lymington (Pennington Chase)	The Meteor. Council	...	1	6	40	23·25	..
D	Portsmouth (Fort Cumberland)	P. Murch, Esq., C.E.	8	0	9	16 ⅄	21·95	117
D	,, (Milton)	Dr. Fraser	5	1	0	18 ⅄	25·76	118
D	North Hayling	F. Padwick, Esq.	5	1	0	10	23·96	109
D	Porchester (Noel Cottage)	Miss Montgomery Frost	5	1	0	...	22·13	...
D	Havant (Farlington)	H. R. Smith, Esq., C.E.	5	1	0	77 T	21·75	126
	,, (,,) M	,, ,, ,,	5	1	0	77 T	21·54	...
D	,,	,, ,, ,,	5	1	0	25 T	23·23	134
	,, M	,, ,, ,,	5	1	0	25 T	23·32	...
D	Emsworth (Redlands)	F. Jacomb Hood, Esq.	5	1	0	90 T	26·02	139
D	Southampton (Cadland)	J. Laurie, Esq.	8	4	6	52 T	27·43	158
D	,, (Netley)	Prof. J. Lane Notter	8	0	5	37 ⅄	30·99	123
D	,, (,, Lake Ho.)	Col. Pennington	8	1	0	54 ⅄	26·30	168
	Lyndhurst (Fritham House)	F. E. Chapman, Esq.	...	2	0	410	26·80	102
	Southamptn.(OrdnanceSurv.Off.)	Col. D. A. Johnston, R.E	5	1	0	79 ⅄	27·61	133
	,, (Thornhill Park)	Col. F. Willan	5	1	10	220 T	26·30	...
D	,, (Totton)	Mr. W. F. Harold	5	5	0	85	26·04	147
	,, (AngleseaRd.,Shirley)	A. Spooner, Esq.	5	1	1	83	27·05	...
	,, (Tatchbury Manor)	C. F. Wilson, Esq.	5	1	0	...	27·72	127

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
HAMPSHIRE—(*con.*)						
D Wickham (The Croft)	RevStanhope Rashleigh	5	0 11	80 ?	25·71	146
†Botley (Fairthorne)	R. A. Burrell, Esq.	8	1 0	70	26·81	146
D ,, (Hall Court)	Adml. Murray-Aynsley	8	1 6	105 T	28·76	148
D† ,, (Botley Hill)	A. Jenkyns, Esq.	5	1 6	36 T	26·32	137
D† ,, (Beachcroft, Curdridge)	Miss Pasley	8	2 0	100	25·13	141
D Horndean (Blendworth Lodge)	Mrs. Long	8	0 10	217	32·33	138
D ,, (St. Catherines)	Miss Barnes	8	0 8	417 T	31·03	142
D†Southampton (Red Lodge)	R. C. Hankinson, Esq.	5	0 6	210 T	25·74	157
D Fordingbridge (Oaklands)	Mrs. Westlake	8	1 0	135 T	26·86	110
D Hambledon (Rosecroft)	Mr. L. Dawes	5	2 6	200 T	29·83	147
Bishops Waltham (Swanmore House)	W.H.Myers, Esq., M.P.	8	1 0	390 T	26·80	124
D ,, ,, (Hill Place)	Major W. A. Daubeny.	8	0 9	260 T	28·93	147
,, ,, (Northbrook Ho.)	H. W. Trinder, Esq.	5	1 0	136 ⅄	28·49	139
D Droxford (Fir Hill)	Capt. Mackenzie Grieve	5	3 6	212 T	26·62	138
Fordingbridge (Wood Green)	H. Hinxman, Esq.	5	1 2	140 ⅄	27·56	...
D Chandlers Ford (Fryern)	Miss Grace Stuart	...	1 8	200	27·45	112
East Meon (Westbury House)	H. Le Roy Lewis, Esq.	5	5 8	296 ⅄	33·64	139
D Ampfield Vicarage	Rev. Vere Awdry	5	3 0	230 T	26·49	136
†Otterbourne Hill Reservoir ... M	W. Matthews, Esq., CE	5	18 0	273 ⅄	17·27	...
D† ,, (W.W., Shawford).	,, ,, ,,	5	1 0	113 ⅄	22·87	143
† ,, (,, ,,)M	,, ,, ,,	5	1 0	113 ⅄	23·27	...
D Petersfield (Fairley)	AWLeachman,Esq.MD	5	0 7	202 T	33·03	146
D ,, (Steep Vicarage)	Rev. E. L. Puxley.	5	0 7	170	25·34	139
D West Dean	Rev. E. Wells	5	1 0	137 B	27·48	136
East Liss (Hill Brow)	Mrs. S. S. Latter	5	1 0	500 T	35·52	146
D ,, ,, (Newlands)	E. B. Falwasser, Esq.	5	1 0	390 T	32·69	141
D†Alresford (Hinton Ampner)	Rev. J. Heberden	8	4 4	340 ⅄	29·26	143
D ,, (Ovington)	Rev.H.F. La M.Stowell	5	1 0	221 T	31·78	128
,, (Itchen Stoke Rectory)	Rev. C. H. Conybeare.	5	1 0	214 T	31·14	153
Greatham (King's Holt)	Mrs. Parr	5	1 7	279 T	30·19	...
Horsebridge (Bossington)	W.H.Deverell,Esq.D.L.	8	0 6	92 T	31·61	158
D†Winchester (Harestock)	Col. Knight	5	1 0	302 ⅄	31·85	153
Liphook (Fowley)	E. A. Lee, Esq.	5	0 10	296 T	33·14	179
,, (White Hill Chase)	Col. R. H. Maude	5	1 0	300 ⅄	29·32	136
D Grayshott [Hindhead]	Mrs. Lyndon	5	1 0	660 T	30·16	164
D Hartley Maudit Rectory	Rev. A. C. Hervey	5	1 1	540 T	28·37	127
Headley (Eveley)	Mr. T. Carter	5	1 3	295 T	31·79	126
D Swarraton Rectory	Rev. W. L. W. Eyre	5	1 0	310 ⅄	29·37	163
D†Alton (Ashdell)	F. Crowley, Esq.	8	3 6	433 ⅄	31·56	129
,, (Eagles Nest)	,, ,, ,,	5	52 4	505	21·94	...
,, (Shalden Manor)	J. G. Wood, Esq.	8	3 0	594	29·38	123
D Whitchurch (Long Parish)	C. Durnford, Esq.	...	...	...	26·31	133
Andover (The Knoll)	G. H. Westbury, Esq.	5	0 10	196 T	28·55	131
D Tedworth House [Ludgershall]	Mr. G. A. Inglefield	5	1 8	357 T	31·19	137
Crondall (Warren Corner) *old g.*	F. Wilkin, Esq.	5	1 0	575 T	25·83	...
D ,, (,, ,,)*new g.*	,, ,, ,,	5	1 0	575 T	26·21	132
Oakley	Rev. F. G. Hume	5	1 6	400	27·94	136
D Basingstoke (Chapel Hill)	G. Stephens, Esq.	5	1 0	328 T	23·09	145

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge: Diameter	Rain Gauge: Height Above Ground	Rain Gauge: Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	HAMPSHIRE—(*con.*)						
D†	Basingstoke (Sherborne St. John)	Rev. D. W. Chute	5	1 2	267 T	24·84	146
	Winchfield (Sheldons)	C. E. Harris, Esq.	5	1 0	285	22·56	135
D	,, (Bylands)	Lady Mary Scott	8	1 4	222	21·89	157
D	,, (Elvetham Park)	Mr. G. B. Mitchison	8	1 0	217 T	26·09	180
	Farnborough (The Grange)	Major Holt	5	1 0	232 T	28·90	202
	,, (The School)	Rev. G. C. Carter	5	2 0	257 T	27·00	155
	,, (,, ,,) M	,, ,, ,,	5	2 0	257 T	24·28	...
D	Hartley Wintney	Mr. W. G. Machin	5	1 2	222 T	23·14	139
	,, Grange	F. Walkinshaw, Esq.	8	1 0	221 ⅄	23·55	144
	Kingsclere	Dr. Maples	5	3 0	...	27·17	152
	†Strathfield Turgiss	Mrs. Griffith	5	2 6	200 ⅄	21·68	...
	Heckfield (Highfield Park)	F. B. Marson, Esq.	5	0 10	262	22·24	145
	Strathfieldsaye Gardens	Mr. J. W. McHattie	5	4 0	164	24·28	116
	Heckfield (Park Corner)	J. Martineau, Esq.	5	1 2	257	21·04	125
	BERKS.						
D	Sandhurst Lodge	Sir W. J. Farrer	8	2 9	263	24·17	111
D	Wellington College	S. A. Saunder, Esq.	5	1 0	283 ⅄	23·89	135
D	Aldermaston Wharf	J. T. Strange, Esq.	5	1 0	181 ⅄	22·94	149
D	Sunninghill (Lynwood)	G. Rodie Thompson, Esq.	5	1 0	266 ⅄	24·16	144
D	Ascot (Winkfield Manor)	C. A. Ferard, Esq.	5	1 0	240 ⅄	23·95	142
D	Newbury (Benham Park)	Mrs. Myers	8	1 3	...	22·97	157
	Shinfield (Clares Green)	A. Palmer, Esq.	5	4 6	160 T	21·11	135
D	Hungerford (Kintbury)	Sur.-Gen. Woolfryes, CB	5	1 0	297 T	24·60	160
D	Beenham House	H. Waring, Esq.	8	2 2	320	21·40	123
D	Bracknell (Warfield)	Rev. B. C. Littlewood	5	0 4	199 T	22·82	162
D	Old Windsor (Beaumont College)	Rev. J. Scoles	5	1 1	96	22·98	133
D	Windsor (Royal Gardens)	Mr. T. Edwards	5	1 0	...	22·37	153
D	Reading (Maiden Erlegh)	Mr. A. G. Nichols	5	1 0	200	23·18	147
	,, (Englefield)	Mr. J. Coombes	5	1 1	...	23·09	131
D	,, (Calcot Place)	General Swettenham	5	1 4	176 T	23·02	162
D	,, (Ellerslie)	Rev. A. Cheales	5	1 0	195 ⅄	21·51	121
D	,, (Forbury Gardens)	J. Bowen, Esq., C.E.	5	1 5	145 ⅄	21·65	151
	,, (East Thorpe)	A. Palmer, Esq.	5	3 0	157 ⅄	22·60	141
	,, (Earley)	M. J. Sutton, Esq.	8	1 6	150 T	22·28	...
D	Twyford (Haines Hill)	Mrs. Wedderburn	5	0 7	155	21·96	142
D	Newbury (Welford Park) *old g.*	Mr. C. Ross	5	1 0	335 ⅄	27·45	151
D	,, (,, ,,) *new g.*	,, ,,	5	1 0	341 T	28·11	151
D	,, (Weston)	R. Osmond, Esq.	5	1 4	335 ⅄	24·54	157
	Frilsham House	Mr. W. E. Austen	5	1 8	...	20·37	121
D	Yattendon Court	Mr. R. Maker	5	1 0	450 T	23·35	123
D	Lambourn (East Garston)	Mr. J. H. Spackman	5	2 6	395 T	25·02	152
	Maidenhead (Stafferton Lodge)	G. H. Palmer, Esq.	5	0 10	110 T	24·18	169
D	,, (Lowood)	Gen. Davies	8	1 0	167 T	23·34	134
D	,, (Cookham Vic.)	Rev. R. W. Rogers	5	1 3	90 T	22·01	127
D	Temple House [Marlow]	Mr. G. Groves	5	1 0	106	22·65	163
D	Wantage (Letcombe Regis)	S. W. Silver, Esq.	5	0 9	...	25·22	127
	,,	W. Hanson, Esq.	5	1 0	304	24·67	127

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	BERKS—(*con.*)							
	Wallingford Castle	J. Kirby Hedges, Esq..	5	1	0	175 ⇈	21·21	132
	Little Wittenham Rectory	Rev. Percy Burd	5	1	0	187 ↑	20·26	154
D	,, ,,	J. Latham, Esq.	5	2	0	187	20·36	138
D	Long Wittenham (Manor Ho.)	Capt. Clutterbuck, R.N.	12	1	0	165 ↑	21·89	129
	,, ,, (Lovegrove's Cott.)	Rev. F. C. Clutterbuck	5	1	0	165	21·04	125
	Faringdon	Mr. C. Luker	5	1	0	333 ↑	24·27	128
	Abingdon (Caldecott House)	Maj.-Genl. T. M. Bailie	5	1	4	...	19·92	...
D	,, Union	Mr. J. Fray	5	1	0	196	20·43	152
	,, (Sewage Works)	G. Winship, Esq., C.E.	5	0	6	169	19·58	...

DIVISION III.—SOUTH MIDLAND COUNTIES.

	HERTS.							
D†	Rickmansworth (Moor Park)	Rt. Hon. Lord Ebury..	5	2	0	340	27·28	155
D	Elstree (Aldenham House)	Mr. E. Beckett	10	4	9	305	26·64	165
D	Watford (Frogmore)	A. P. Blathwayt, Esq.	5	1	0	182 ↑	22·79	147
	,, (Colne Valley W.W.)	J. Hopkinson, Esq.	5	1	0	220	24·34	144
D	,, (London Orphan Asylum)	Rev. Dr. Cockrem	5	1	6	230 ↑	23·87	145
D	,, (St. Alban's Road)	H. Ruddle, Esq.	5	1	0	...	25·13	106
	Barnet (Gas Works)	J. Hopkinson, Esq.	8	0	9	212	24·28	128
	Chipperfield (Little Callipers)	A. W. Rivington, Esq.	5	0	7	407 ↑	24·07	113
	Kings Langley (Laurel Bank)	I. Butler, Esq.	5	1	0	283 ⇈	26·80	...
	Northaw (Northacre)	Rev. F. W. Poland	5	1	0	...	25·22	164
D	Broxbourne (Stafford House)	G. J. Newbery, Esq.	5	1	0	118 ↑	22·46	148
D	Hemel Hempstead (Apsley Mills)	Messrs. J Dickinson & Co.	24	0	9	260	27·24	140
D	St. Albans (The Grange)	J. Hopkinson, Esq.	5	1	0	380 ⇈	26·56	165
	,, (Bone Hill)	,, ,, ,,	5	1	0	336 ⇈	25·87	162
†	,, (Gorhambury)	Mr. Newberry	5	1	0	425 ↑	27·36	153
D	Gt. Berkhampstead (Rose Cottage)	W. E. Milner, Esq.	5	1	0	334 ⇈	26·09	157
	,, ,, (,, ,,)M	,, ,, ,,	5	1	0	334 ⇈	25·97	...
D	,, ,, (Rosebank)	E. Mawley, Esq.	8	1	0	401 ⇈	25·88	152
	,, ,, (,,) M	,, ,,	8	1	0	401 ⇈	25·59	...
D	,, ,, (Fairhill)	W. B. Hopkins, Esq.	5	1	0	548 ⇈	24·99	154
D	,, ,, (Northchurch)	F. L. Sutton, Esq.	5	1	0	400	25·29	134
D	,, ,, (Gt. Gaddesden)	Rev. W. Tyrwhitt Drake	8	1	0	426 ⇈	26·40	139
	Gilston Park	Mr. W. Cooper	8	0	6	175 ↑	24·83	122
	Hertford (Bayfordbury)	W. C. Baker, Esq.	8	1	2	250	22·93	157
D	,, (Marden Hill, Tewin)	R. Hoare, Esq.	5	1	0	257 ↑	22·83	124
	Tring (Pendley Manor)	Mrs. Williams	5	2	0	500 ?	28·45	154
D	,, (Elm House)	E. J. Le Quesne, Esq.	5	1	2	460	25·77	144
D	,, (Offside Cottage, Cowroast)	R. Leah, Esq.	5	1	4	420	27·66	155
	,, (Cowroast)	G. Thomas, Esq.	5	3	8	394 ⇈	27·72	133
	Harpenden (Rothamstead)	Sirs J. Lawes & J. Gilbert	5	0	9	420 ↑	25·84	151
	,, (,,)	,, ,, ,,	8	0	9	420 ↑	25·06	142
D	,, (,,)	,, ,, ,,	72X87	0	9	420 ↑	27·13	161
D	Ware (Red House)	J. Francis, Esq., C.E..	5	4	0	112 ↑	22·86	137
D	,, (Fanham's Hall)	Miss V. M. Croft	8	1	0	253 ↑	23·29	141

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	HERTS—(*con.*)						
D	Welwyn (Bridge House)	B.W.Thomas, Esq., MD	5	6 6	...	25·32	143
D	,, (Danesbury)	A. M. Blake, Esq.	5	2 0	400	25·35	139
D	,, (Datchworth Rectory)	Rev. A. Amos	5	1 0	386 T	26·42	132
D	Much Hadham	T. W. Mott, Esq.	5	1 0	222 B	24·88	145
D	Kensworth [Dunstable]	Miss Jones	5	1 0	630 B	26·91	143
D	Bennington House	Rev. Dr. Parker	5	1 0	408 ⊼	24·79	170
D	,,	Miss C. Nihill	5	1 0	408	24·07	153
D	Buntingford (Hamels Park)	Mr. E. Wallis	5	1 0	400 T	24·67	132
	Hitchin (Preston)	R. de V. Pryor, Esq.	8	2 5	480 ⊼	23·52	146
D†	,, (Wratten)	W. Lucas, Esq.	5	2 1	238 ⊼	23·16	154
	,, (The Maples)	W. Hill, Esq.	8	1 1	220 T	22·14	138
D	,, (Bancroft)	F. Ransom, Esq.	5	0 9	212 T	22·50	154
	,, (High Down)	J. Pollard, Esq.	5	1 1	422 ⊼	22·76	158
D	Weston Park	M. R. Pryor, Esq.	5	0 8	470 T	23·60	154
D	Buntingford (Throcking Rectory)	Rev. C. W. Harvey	5	1 0	484 T	24·23	182
D	Baldock (Hitchin Street)	Dr. Langston Day	5	1 4	214 ⊼	22·09	137
D	Royston (Therfield Rectory)	Rev. J. G. Hale	5	4 3	510 ⊼	21·78	145
	,, (Union Workhouse)	H. G. Fordham, Esq.	5	1 0	217	21·29	130
	,, (Melbourne Street)	J. E. J. Phillips, Esq.	8	0 11	201 T	21·04	137
	BUCKINGHAMSHIRE.						
D	Eton (Tangier Island)	C. Sainty, Esq.	5	1 0	67 ⊼	21·84	115
D	Slough (Langley)	R. H. Major, Esq.	8	0 10	85 T	21·79	136
	,, (Upton)	R. Bentley, Esq.	8	3 0	80 ⊼	19·75	...
D	,, (,,)	,, ,, ,,	5	2 0	78 ⊼	21·86	142
D	,, (Upton Park)	H. M. Baker, Esq.	5	1 5	80 ⊼	21·00	138
	Burnham (Fair View)	G. J. Williams, Esq.	5	3 0	162	22·65	108
D	Taplow Court	W. H. Grenfell, Esq.	8	1 0	217 T	21·62	108
	Greenlands [Henley-on-Thames]	Hon. W. F. Smith, M.P.	8	1 3	116	22·89	119
D	Hedsor	Rt. Hon. Lord Boston.	8	1 0	170 T	22·88	131
	Marlow Mills	T. H. Wright, Esq.	8	2 0	105	22·68	131
	High Wycombe	H. S. Wheeler, Esq.	8	0 9	253 ⊼	21·40	...
D	Chalfont St. Giles (The Stone)	Col. Phipps	5	1 0	270 T	25·29	144
D	Amersham (The Plantation)	G. Weller, Esq.	8	1 0	464 ⊼	24·56	142
D	,, (Rumseys)	G. M. H. Weller, Esq.	8	0 10	309 T	26·69	137
D	Wendover (Halton Gardens)	Mr. Sanders	5	1 10	400	25·69	111
	Bulbourne [Tring]	G. Thomas, Esq.	5	2 3	401 T	25·03	161
	Aylesbury (High Street)	late J. Copcutt, Esq. C.E.	12	1 0	...	19·90	111
	Waddesdon Manor	Mr. J. Jaques	6	1 6	364 T	23·38	143
	Mentmore	J. Smith, Esq.	5	1 1	...	24·75	...
D	Winslow (Botolph House)	R. Gray, Esq.	5	1 0	414	20·63	144
D†	,, (Addington Manor)	Rt. Hon. Lord Addington	8	1 0	309 ⊼	21·29	147
	,, (,, ,,) M	,, ,, ,,	5	1 0	309 ⊼	20·78	...
D†	Buckingham (Adstock)	J. E. S. Weston, Esq.	5	0 9	352 T	20·75	141
D	Stony Stratford (Thornton)	Mr. W. Sturdy	5	1 3	...	20·41	113
D	Wolverton	Rev. W. L. Harnett	5	1 0	270 T	19·70	137
D	,, (The School House)	Mr. H. J. Hippsley	5	1 0	264	20·39	145
D	Newport Pagnell	F. Littleboy, Esq.	5	2 0	196 T	18·97	131

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	BUCKINGHAMSHIRE—(*con.*)						
	Olney (Filgrave Rectory)	Rev. J. Tarver	8	0 8	285	19·75	133
D	,, (Brayfield House)	G. D. Farrer, Esq.	5	0 7	200	19·89	130
	OXFORD.						
D	Caversham (Cane End House)	D. Vanderstegen Esq.	5	0 4	400 ?	21·03	132
D	Goring (Elmcroft)	Major E. Gambier Parry	5	1 1	...	21·06	141
	Henley-on-Thames (Greys)	Rev. Canon Pinder	5	2 6	370 T	22·36	...
D	,, ,, ,, (Northfield Ho.)	J. W. Guy, Esq.	5	1 0	120	23·15	153
D	,, ,, ,, (Highmore Vic.)	Rev. F. R. Harnett	5	1 0	500 T	24·79	143
	,, ,, ,, (Henley Park)	M. J. Sutton, Esq.	5	0 8	410 ⅄	20·31	...
D	,, ,, ,, (Assenton)	Mr. J. Ratty	5	1 0	281	24·08	129
D	Dorchester	Col. Blunt	5	0 6	169 T	20·76	138
D	,, (Bishops Court)	T. Latham, Esq.	5	2 0	169	20·49	157
D	Abingdon (Culham)	Rev. F. C. Clutterbuck	5	1 0	200 ⅄	20·93	143
D	Watlington (Pyrton Manor)	Cecil Hamersley, Esq.	5	1 0	321 T	23·49	144
	Drayton St. Leonard	Mr. S. C. Tompkins	5	1 1	...	20·65	112
D	Nuneham Park Gardens	Mr. Munday	8	3 0	280 T	22·65	120
	Wheatfield Rectory	Mrs. Spencer	5	1 3	260	23·35	137
D	Toot Baldon (Potlands)	D. Clinkard, Esq.	5	1 0	288	22·29	136
	Waterstock	W. H. Ashhurst, Esq.	8	3 0	206 T	22·10	150
	Holton Park	Hon. T. F. Fremantle.	5	1 0	290 T	19·12	125
D†	Oxford (Mag. Coll. Laboratory)	E. Chapman, Esq.	5	1 0	186 ⅄	20·44	140
	,, (,, ,, ,,)	,, ,, ,,	5	33 11	223 ⅄	17·91	...
	,, (Radcliffe Observatory)	Dr. Rambaut	8	1 8	210 ⅄	21·02	129
D	,, (,, ,,)	,, ,,	11	2 4	210 ⅄	22·02	129
	,, (,, ,,)	,, ,,	10	22 0	230 ⅄	21·63	130
	,, (,, ,,)	,, ,,	10	112 0	320 ⅄	15·11	118
D	,, (St. Giles')	Miss Tawney	8	1 3	211 ⅄	21·73	140
D	,, (Norham Road)	Rev. C. B. Mount	10	1 2	206 ⅄	20·53	125
D	,, (Headington Hill)	Miss Davenport	5	0 10	354	22·76	139
D	,, (Elsfield)	H. Parsons, Esq.	5	1 0	330 T	22·81	153
	Stanton St. John's	Miss Thomson	8	1 0	340	23·19	152
	,, ,, ,, (Woodperry)	J. Thomson, Esq.	6	1 0	399 T	23·19	153
D	Charlbury (Highfield)	Mrs. Sturge	5	1 6	442 ⅄	23·15	170
D	Chipping Norton (Lyneham)	R. de M. Pratt, Esq.	5	1 7	351 T	25·04	130
	,, ,, (Kingham)	E. Lockwood, Esq.	5	4 0	442	24·84	111
D	,, ,, (Churchill)	G. Edmonds, Esq.	5	1 0	510 T	22·94	151
D	Bicester (Middleton Park)	Rt. Hon. Earl of Jersey	5	2 6	336 T	22·80	162
	Steeple Aston (Hill House)	B. S. Ogle, Esq.	5	1 0	400	23·62	149
D	,, ,, (The Grange)	E. W. Bradshaw, Esq.	8	1 0	400 T	21·76	149
D	Swerford	Mr. W. Hall	5	1 0	570 T	23·47	153
D	Banbury (Adderbury)	G. H. Norris, Esq.	5	1 1	323 ⅄	21·79	157
D	,, (Bloxham Grove)	W. H. Warriner, Esq.	8	3 10	387 ⅄	21·74	126
D	,, (Sibford Ferris)	J. Lamb, Esq.	5	1 0	590 ⅄	20·79	130
D	,, (Bodicote)	J. F. Starkey, Esq.	8	1 3	388 ⅄	22·59	150
D	,, (Ark House School)	A. J. Beale, Esq.	5	1 0	310	21·66	147

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
NORTHAMPTON.						
Brackley (East Hill)	Sir G. Bannerman, Bt.	5	1 0	425 T	23·18	148
D Grimsbury [Banbury]	W. E. Wood, Esq.	5	1 3	320 T	20·43	118
D ,, [,,]	A. B. Field, Esq.	8	1 9	320	21·50	109
Thorpe Mandeville [Banbury]	Mr. S. Baines	5	1 0	530	24·04	118
Towcester (Whittlebury)	W. S. Miller, Esq.	5	1 6	350	23·38	139
D ,,	P. Phipps, Esq.	5	1 0	290	21·93	127
,, (Easton Neston)	Mr. E. Slarke	8	1 0	340 T	20·17	131
Byfield (Woodford Halse)	Rev. F. A. Smith	5	1 6	488 T	20·01	...
D Blisworth (Grafton House)	A. Westley, Esq	5	5 0	320	20·00	135
D ,,	T. W. Millner, Esq.	5	1 6	300 ⊼	20·10	140
D Lichborough Hall	E. Grant, Esq.	5	1 1	500	23·60	150
D Daventry (Fawsley)	Lady Knightley	5	1 0	477 T	20·02	121
D Castle Ashby	R. G. Scriven, Esq.	5	1 0	263 ⊼	20·76	156
Little Houghton	C. A. Markham, Esq.	...	...	...	19·96	133
Northampton (Berrywood)	R. Greene, Esq.	8	1 4	399 ⊼	23·87	137
D ,, (St. George's Place)	C. A. Markham, Esq.	5	1 0	276 T	20·35	134
,, (Freehold Street)	B. Burrows, Esq.	5	1 0	264 T	23·46	...
,, (Pytchley Street)	Mr. E. Ball	5	1 6	270	22·92	145
D ,, (Kingsthorpe)	S. Law, Esq.	5	1 0	280	23·39	133
Althorp House	Miss Chowler	8	3 10	310 ⊼	21·07	107
Great Brington	C. A. Markham, Esq.	...	...	..	22·25	...
D Sywell Hall	T. A. Dickson, Esq.	5	1 0	371 T	23·75	138
D Pitsford (Sedgebrook)	C. A. Markham, Esq.	5	1 0	311 ⊼	25·63	141
,, (,,) ..... M	,, ,, ,, ...	5	1 0	311 ⊼	25·42	...
D Daventry (Waterloo)	F. F. Rodhouse, Esq.	5	1 3	436 ⊼	24·83	161
Earls Barton Vicarage	C. A. Markham, Esq.	5	1 4	280 T	20·76	169
D Mears Ashby	J. L. Fawssett, Esq.	5	6 5	339	22·56	164
D Wellingborough (Swanspool)	N. P. Sharman, Esq.	5	0 2	155	21·02	153
D ,, (Croyland Abbey)	E. Sharman, Esq.	5	0 5	...	20·46	158
Watford Court	C. A. Markham, Esq.	...	...	...	21·56	141
D Ravensthorpe (Coton Mill)	G. S. Eunson, Esq.	5	1 0	355	25·65	144
Scaldwell	Capt. R. Soames	5	1 0	404 ⊼	24·12	...
D† Burton Latimer Rectory	Rev. W. B. Jacques	5	1 0	280	22·79	146
Hazelbeech	C. A. Markham, Esq.	...	...	...	26·24	145
D† Kettering (Sewage Works)	T. R. Smith, Esq., C.E.	8	1 0	199 ⊼	22·02	147
D ,, (Queensberry Road)	P. Wallis, Esq.	8	1 3	300	21·13	154
D ,, (Headlands)	C. W. Lane, Esq.	5	1 0	288 ⊼	21·14	154
D Welford (Salford House)	J. Gee, Esq.	5	1 3	430 ?	25·88	164
Aldwinkle St. Peter	C. A. Markham, Esq.	...	...	...	22·82	151
Oundle	J. M. Siddons, Esq.	5	3 4	105 T	22·15	105
East Carlton	R. T. Greaves, Esq.	5	1 0	321	19·73	...
D Corby (Weldon Grange)	J. Rooke, Esq.	8	1 0	342 ⊼	22·90	202
D Rockingham Castle	Mr. J. H. Brown	5	4 4	400 L	26·21	141
Kingscliffe (Fineshade)	C. A. Markham, Esq.	...	...	...	21·93	106
Peterborough (Thorpe Hall)	Col. C. I. Strong	5	1 0	30 ?	18·52	...
Barnack (Walcot Hall)	J. Griffith Dearden, Esq.	5	1 0	...	20·69	143
D Stamford (Collyweston)	Baldwin Latham Esq CE	5	1 0	315 T	20·56	126
D ,, (,, House)	Miss Tasker	5	1 0	281 T	22·11	157

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in	feet.	inches.	
NORTHAMPTON—(*con.*)						
D Stamford (Easton)	N. Day, Esq.	5	0 9	271 T	20·50	147
,, (St. Martin's)	Mr. T. Booth	5	6 0	107 ⩛	21·69	144
D Maxey Vic. [Market Deeping]	Rev. W. D. Sweeting...	5	1 0	32 ⩛	20·78	176
,, ,, [,, ,,] M	,, ,, ,, ...	5	1 0	32 ⩛	20·67	...
HUNTS.						
D St. Neots (Waresley Park)	Lady C. Duncombe ...	5	0 11	190	20·68	131
D ,, (Great Paxton)	Rev. A. G. Cane	5	1 0	100 T	18·86	122
Offord D'Arcy	W. Priestley, Esq.	5	0 9	50	19·88	135
D Buckden	P. M. Roxby, Esq. ...	5	0 6	85 ⩛	21·36	146
D Huntingdon (Brampton)	Miss May Bird	5	1 1	39 T	22·65	154
D ,, (Hinchingbrook Gardens)	Mr. J. Myers	10	6 0	74 T	19·45	138
D Alconbury	Rev. R. Conway	5	1 0	60 T	20·69	148
Whittlesea Mere	A. Lunn, Esq., C.E. ...	8	1 6	...	20·80	116
D Yaxley (Norman Cross)	Mr. W. Allen	8	1 0	106 T	22·26	143
BEDFORD.						
D Luton (Pumping Station)	A.J.L. Evans, Esq., C.E.	5	1 0	343 ⩛	23·74	148
Shillington	Kilham Roberts, Esq...	5	1 0	182	21·67	157
D Ampthill (Higham Bury)	E. J. Jekyll, Esq.	5	1 0	310 T	24·44	159
,, (Silsoe)	H. Trethewy, Esq.	5	1 0	214 T	25·15	133
,, (Wrest Park)	Mr. G. Ford	5	1 1	...	20·02	...
D† Aspley Guise (Oaklands)	E. E. Dymond, Esq. ...	5	1 0	410 T	19·83	150
,, ,, (,,) M	,, ,, ,, ...	5	1 0	410 T	19·87	...
D Woburn (Crawley Farm)	H. H. Mann, Esq.	8	1 0	292 T	20·42	155
,, (Fruit Farm, Ridgmount)	R. Lewis Castle, Esq...	5	0 8	270 T	21·28	136
D Stotfold [Baldock]	Dr. Swain	5	1 0	220 T	22·37	162
Ampthill (Maulden)	S. Street, Esq.	5	1 6	...	18·45	...
D Biggleswade (Langford Vicarage)	H. B. Ewbank, Esq....	5	1 0	106 T	20·34	158
,, (Old Warden)	Mr. G. R. Allis	8	1 2	...	22·37	110
D Potton (Wrestlingworth)	H. J. King, Esq.	5	1 0	...	20·92	140
,, Vicarage	Rev. G. E. Gwynne ...	5	1 3	145	18·19	...
Sandy (The Lodge)	Rt. Hon. Lord Peel ...	5	1 0	...	19·82	146
D Bedford (The Grove)	W. B. Graham, Esq. ..	5	1 0	108 T	18·90	112
,, (St. Peter's Street)	W. Godfrey, Esq.	5	1 0	...	18·80	...
,, (Milton Ernest)	F. Newbery, Esq.	5	5 0	137 ⩛	23·03	125
D Sharnbrook (Colworth Gardens)	Mr. J. Hoad	5	0 8	250	20·17	117
CAMBRIDGE.						
D Odsey [Royston]	H. G. Fordham, Esq....	5	1 0	256 ⩛	19·93	156
D ,, [,,]	,, ,, ,, ..	5	1 0	256 ⩛	19·91	157
D Foxton House [Royston]	A. P. Humphry, Esq...	5	0 10	60 T	19·86	150
Abington Pigotts [Royston] ...	H. G. Fordham, Esq...	8	0 8	130	19·34	148
Whittlesford (Sawston Vicarage)	Rev. C. E. Crump	5	1 0	...	20·14	157
D Harston	Mrs. C. M. Baldwin ...	5	0 8	...	20·28	160
Carlton	G. H. Long, Esq.	5	1 0	340 T	24·67	137
D ,, Hall	A. S. Nice, Esq.	5	1 6	...	25·14	151
D Longstowe Rectory	Rev. J. P. Sharp	5	1 3	227 T	23·38	165

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	CAMBRIDGE—(*con.*)						
	Trumpington	F. Parsons, Esq.	5	1 0	50	20·54	138
D	,, (Gilmerton)	S. Nutter, Esq.	8	0 9	...	18·01	148
	Granchester Mill	H. G. Fordham, Esq.	5	5 0	31 ⅄	19·02	136
D	Cambridge(FulbournePmpngSta)	W. W. Gray, Esq., C.E.	5	1 0	37 ⅄	21·81	174
D	,, (W.W.Cherryhinton)	,, ,, ,,	5	1 0	35 ⅄	18·49	143
	,, (Botanic Gardens)	H. G. Fordham, Esq.	8	0 9	40	19·59	116
D	,, (Benet Place)	Rev. J. Wardale	5	1 0	42 T	18·69	148
D	,, (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 ⅄	18·67	161
D	,, (Pinehurst)	C. F. Foster, Esq.	5	0 10	36	19·10	140
	,, (Trinity College)	*Registrar Gen.Returns*	8	0 8	40	18·82	146
D†	,, Observatory	Sir R. S. Ball, F.R.S.	5	1 0	84 ⅄	19·39	129
D	,, ,,	,, ,, ,,	8	0 10	84 ⅄	19·30	125
	,, (Quy Hall)	H. G. Fordham, Esq.	5	0 5	61	20·03	133
	Newmarket (Cheveley Park)	,, ,, ,,	8	1 6	350	22·51	118
	Lolworth Rectory	,, ,, ,,	5	0 11	...	23·33	131
	Burwell	,, ,, ,,	5	2 0	58	20·48	120
	Cottenham (Bernard House)	A. Bull, Esq.	5	1 6	30 T	19·02	113
D	Soham	T. Everett, Esq.	5	1 0	25 T	20·37	122
D	Stretham (Dimocks Cote)	Mr. H. Nightingale	5	13 7	...	17·98	125
D	,,	Mr. J. Housley	9	4 9	13 ⅄	17·27	114
	,, (Orchard House)	Mr. C. Wright, Junr.	8	5 0	42	18·13	123
D	,, Ferry	,, ,, ,,	8	5 0	...	16·99	116
D	Ely (The Palace)	Rev.G.BullockWebster	5	1 0	64 T	21·32	169
	Mepal Engine	H. G. Fordham, Esq.	5	20 6	25	16·06	...
	Littleport (Highfield House)	H. G. Martin, Esq.	8	2 7	67 T	20·13	130
	Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	0 6	45 ?	20·46	114
	,, (The Priory)	H. F. Fryer, Esq.	5	0 7	45	22·06	...
	,, (Horseway Lock)	A. Lunn, Esq., C.E.	8	15 0	...	14·97	101
	Stanground Sluice	,, ,, ,,	8	1 6	...	20·05	...
	March	,, ,, ,,	9	2 0	...	22·26	136
	Upwell (Marmont Priory Lock)	,, ,, ,,	8	1 1	...	18·99	116
	,, (Euximoor House)	H. West, jun., Esq.	5	0 8	15 ?	23·30	134
D	Thorney	A. J. Forrest, Esq.	8	3 6	9 ⅄	19·94	136
	,, (Wryde House)	S. Egar, Esq.	5	1 0	7 T	21·46	148
D	Wisbech (Bank House)	A. Peckover, Esq.	8	0 8	6	23·12	147
D	,, (Monica Road)	W. Climenson, Esq.	8	1 2	6	22·68	152
	,, (Gorefield Vicarage)	H. G. Fordham, Esq.	5	1 1	6	21·23	115

DIVISION IV.—EASTERN COUNTIES.

	ESSEX.						
D	Grays Sewage Works	A. C. James, Esq., C.E.	8	2 3	12 ⅄	19·07	141
D	Orsett	W. Powell, Esq.	8	3 0	...	20·80	131
D	Barking Outfall	Sir A. R. Binnie, C.E.	8	0 6	6 ⅄	20·18	143
	East Ham	W. B. Bryan, Esq., C.E.	8	8 0	34	20·52	119
D	Shoeburyness	The Asst. Super. Expts.	8	0 8	1	18·33	129
	,, M	,, ,, ,,	5	2 6	3	18·47	...

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	ESSEX—(*con.*)						
D	West Ham (Abbey Mills).....	Sir A. R. Binnie, C.E...	8	1 0	11 ⅄	19·84	136
D	Barking Cemetery.....	E. H. Lister, Esq.....	5	1 0	...	22·90	123
D	Southend (Water Works)	C. S. Bilham, Esq. ...	8	1 0	112 ⅄	22·38	128
D	,, (,, ,, Eastwood)	,, ,, ,, ...	8	1 0	50 ⅄	22·13	130
D	Romford (North Ockendon)	Rev. R. T. Crawley ...	5	1 3	100 T	19·83	130
	Manor Park (Albany Road).....	A. J. Wilmshurst, Esq.	5	3 0	...	19·62	...
D	Leyton (Lea Bridge Road)	C. E. Jones, Esq., C.E.	5	1 0	49 ⅄	22·00	136
D	Upminster Hall	Captain Swinton	5	1 0	120 T	20·94	124
	,, ,, ...M	,, ,, ...	5	1 0	120 T	21·03	...
	Walthamstow (Ferry Lane).....	W.B.Bryan,Esq., C.E..	8	1 0	30	21·05	132
	Woodford (Hagger Lane)	,, ,, ,, ...	8	1 0	176 ⅄	21·34	...
D	Billericay (Burghstead Lodge) ..	General Branfill.....	5	1 0	310 ⅄	20·79	165
D	Wickford (Runwell Hall).....	Col. H. Kemble	5	1 0	75 T	22·71	141
D	Havering-atte-Bower	Mrs. Pemberton Barnes	5	1 0	...	20·91	148
D	,, Grange	G. P. Hope, Esq.	5	1 0	255 T	22·91	186
	Buckhurst Hill	W. B. Bryan,Esq.,C.E.	8	1 0	275	21·78	...
	,, ,, ...	,, ,, ,,	8	34 0	305 ⅄	20·33	131
	Chingford Mill	,, ,, ,,	8	1 0	40 ⅄	21·74	126
	Brentwood (Sawyers Hall)	late Rogers Field, C.E.	5	1 0	270 ⅄	21·32	133
D	,, (Shenfield Rectory)...	Rev. W. Quennell.....	5	1 0	305	22·73	136
	Loughton (High Beech)	W.B.Bryan,Esq.,C.E.	8	1 0	376 ⅄	22·18	118
	Waltham Abbey.....	,, ,, ,,	8	1 0	62 ⅄	22·60	145
D	,, ,, (Gunpr. Factory)	The Superintendent ...	5	2 0	64	22·10	145
	Epping (The Hemnalls)	J. Nicholl, Esq.	8	0 8	345	22·13	115
	Norton Mandeville (Readings)...	C. Clarke, Esq.	5	2 6	316	21·66	109
D	Bradwell-on-Sea (BradwellHall)	J.C.Chillingworth,Esq.	5	1 1	27	21·38	114
	,, ,, (Down Hall)...	W. Terrell, Esq.....	5	1 0	20	20·27	108
D	Danbury Rectory	Rev.J.BridgesPlumptre	5	1 0	365 ⅄	22·95	151
D	Writtle (Melbourne).....	E. Rosling, Esq.	5	0 9	140 T	21·86	135
	,, ...	Miss Usborne	5	3 0	100	24·11	...
	Chelmsford (High Street).....	F. Chancellor, Esq. ...	8	1 0	86 ⅄	23·47	129
	,, ...	F.WykehamChancellor	5	0 8	99	23·75	126
D	,, (Spergula)	J.C. Thresh, Esq., M.D.	5	1 0	136 T	23·08	145
D	,, (Springfield Place)...	Miss Jackson	5	0 11	143 ⅄	24·87	148
	,, (Roxwell)	R. W. Christy, Esq....	5	1 0	190 T	23·44	...
	,, (Broomfield)	W. Impey, Esq.....	5	1 4	144 T	23·07	...
D	Hatfield Peverel (Cardfields) ...	A. Rosling, Esq.	8	1 2	76 T	21·36	137
	Great Clacton (Clay Hall)	Philip Smith, Esq.....	5	2 0	40 T	23·03	123
	Witham (Little Braxted Hall)...	A. G. Taber, Esq.	5	1 0	50	22·18	154
D	,, (Terling Vicarage).....	C. Bontflower, Esq. ...	5	1 0	115 T	24·79	149
D	,, (Freebournes).....	J. Wakelin, Esq.	5	0 6	70	23·12	151
D	Great Leighs	J. H. Tritton, Esq. ...	5	3 0	140 T	20·08	131
	Fingringhoe (Ballast QuayFarm)	T. B. Grubb, Esq.....	5	1 0	61 ?	20·82	128
	Colchester (Surrey Villa).....	J. C. Hopwood, Esq....	5	1 0	110 T	22·35	138
D	,, ...	H. Goodyear,Esq., C.E.	8	21 6	87 T	19·60	129
D	,, (Hill House, Lexden)	S. F. Hurnard, Esq....	5	1 0	90 T	20·43	135
	,, (,, ,,)M	,, ,, ,, ...	5	1 0	90 T	19·92	...
	,, (Home Farm, ,,)	Mr. W. Bird	5	1 0	125 T	20·23	112

DIVISION IV.—EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter.	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell
			ft. in.	feet.	inches.	
ESSEX—(*con.*)						
D Braintree (Bocking, Fennes)	H. S. Tabor, Esq.	5	1 0	240 T	22·28	131
,, (,, Place)	late S. Courtauld, Esq.	8	2 3	212 ⩛	23·30	121
D ,, (,,)	T. Taylor, Esq.	5	0 8	157 ⩛	26·21	119
Dunmow (Saling Grove)	Capt. J. Nicolls Harrison	8	1 0	290 ⩛	21·56	...
Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1 0	180 T	23·79	104
D Ardleigh	Rev. F. J. Ball	5	1 0	124 T	21·65	140
D†Harwich (Ramsey)	Mr. Knights	5	0 6	80 T	21·51	141
Halstead	The Royal Meteor. Soc.	5	1 0	144	22·41	139
Dedham (Dalethorpe)	J. D. Tremlett, Esq.	4	0 11	...	22·86	136
Langham Rectory	Rev. T. S. Raffles	5	0 7	134	23·87	145
Great Maplestead	T. F. Miller, Esq.	5	1 0	250	23·10	...
D Saffron Walden (Newport)	Rev. G. F. Tamplin	5	3 6	208 T	27·41	155
D ,, ,,	S. Leverett, Esq.	5	1 0	201 ⩛	25·51	164
D ,, ,, (Audley End)	Mr. J. Vert	5	1 0	155 T	25·62	186
SUFFOLK.						
D Felixstowe (West View)	S. Alexander, Esq.	5	1 0	70	18·60	133
D†Erwarton Hall [Harwich]	J. A. Hempson, Esq.	8	0 6	75	21·59	129
D†Ipswich (Woolverstone Park)	C. H. Berners, Esq.	8	1 0	100 T	21·07	143
D† ,, (Orwell Park)	Mr. J. Wallis	8	1 0	60 ⩛	23·02	151
†* ,, (Belstead Hall)...*new g.*	A. Harwood, Esq.	8	1 6	120 T	21·44	129
D Alderton Rectory	Rev. C. G. Archer	8	2 2	...	22·68	124
D Sudbury (Friars Street)	E. Ransom, Esq.	5	1 7	93 T	23·54	185
D ,, (Newton Road)	J. Alexander, Esq.	5	1 2	130 T	23·26	156
†Ipswich (Bishop's Hill)	G. A. Biddell, Esq., C.E.	5	1 0	104 ⩛	20·29	...
D† ,, (Clare Lodge)	E. R. Turner, Esq., C.E.	5	1 0	178 T	21·09	130
Hollesley Bay	The Meteor. Council	8	1 0	38	21·20	145
Boyton Rectory	Rev. A. Washington	8	2 2	30?	24·22	130
D Cavendish	S. J. Garrett, Esq.	5	1 0	...	25·62	137
Lavenham Hall	W. Biddell, Esq.	5	2 9	220	23·73	...
D Woodbridge Abbey	Capt. Carthew	8	1 2	48 T	20·89	148
,, (Melton Asylum)	S. G. Longworth, Esq.	8	1 4	110	22·37	138
D†Rendlesham Hall	Rt Hon Lrd. Rendlesham	5	1 0	88 ⩛	22·38	119
D Haverhill (Great Thurlow)	A. Boa, Esq.	5	1 0	241 T	23·32	159
Clare (Stansfield)	J. Slater, Esq.	5	1 0	300 T	24·70	...
D ,, (Hawkedon Rectory)	Rev. B. P. Oakes	5	3 4	305 ⩛	23·00	152
Ash Bocking Vicarage.....*old g.*	Rev. M. B. Cowell	5	1 0	231 T	22·31	120
,, ,, ,, ... *new g.*	,, ,, ,,	5	3 4	231 ⩛	22·20	120
Parham (The High House)	H. R. Smith, Esq.	5	1 0	93	23·02	...
D Aldborough (Aldringham Ho.)	F. Garrett, Esq.	8	4 5	50 B	21·25	159
D Great Glemham	Col. Bloomfield	5	0 10	80 T	25·84	139
D Little Saxham	Rev. H. I. Kilner	8	0 10	220	22·32	140
D BurySt.Edmunds(Westley)*new g*	R. Burrell, Esq.	5	1 0	226 ⩛	22·72	139
D ,, ,, ,, (FornhamSt.Martin)	Rev. J. S. Pratt	5	1 0	100	21·21	130
,, ,, ,, (Hengrave)	Mr. W. Nichol	5	1 2	91	21·52	...
D Bacton	C. H. Woods, Esq.	5	1 6	186 T	22·24	147
Darsham (Sibton)	Col. Ward	5	2 6	94	21·64	142
D Ixworth (Walsham-le-Willows)	Miss M. C. Martineau	5	1 0	...	24·20	157

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	SUFFOLK—(*con.*)						
	Stradbroke Rectory	Rev. Canon Tate	5	1 3	172 T	23·58	121
D	Southwold	A. C. Herbert, Esq.	5	1 0	44 T	22·94	159
D	,,	,, ,, ,,	8	1 0	44 T	23·36	159
	Ixworth (Barningham)	Miss A. K. Lingwood	8	1 0	136	20·89	...
D	Elveden Hall	Rt. Hon. Lord Iveagh	5	1 0	130	22·96	196
D	Beccles (Sotterley Hall)	Miles Barne, Esq.	5	0 11	...	24·15	148
D	,, (The Staith)	Clifford Smith, Esq.	5	4 6	...	24·34	186
D	Lowestoft (Bryn-y-Môr)	S. H. Miller, Esq.	5	1 0	86	24·20	156
	,, (,, ,,) M	,, ,, ,,	8	1 0	86	24·24	...
D	,, (The Clyffe, Corton)	R. J. Colman, Esq.	5	1 0	62 L	23·25	159
	,, (Lound Pumping Station)	J. Hawksley, Esq.	8	1 0	74	23·20	132
	Fritton [Yarmouth]	H. E. Buxton, Esq.	8	0 11	40	21·59	149
D	Gorleston (Springfield Road)	R. Whitehead, Esq.	5	7 0	48	22·57	132
D	Burgh Hall [Yarmouth]	H. P. Frederick, Esq.	8	1 2	45 T	21·83	147
	Burgh Castle Rectory	Rev. Canon Venables	5	0 7	40	20·92	129
	NORFOLK.						
D	Scole Rectory	Rev. F. Page Roberts	5	2 0	90	22·03	188
D	Pulham St. Mary	Miss I. M. Deedes	5	1 0	...	23·42	130
D	Tivetshall St. Margaret	T. D. Kirby, Esq.	5	1 1	156 T	21·53	148
D	Santon [Brandon]	Rev. M. A. Gathercole	5	0 10	32	22·45	168
	Ellingham [Beccles]	H. Youngman, Esq.	5	3 0	...	23·67	...
D†	Geldeston [,,]	E. T. Dowson, Esq.	5	1 0	38 ⊼	23·40	172
	,, [,,] M	,, ,, ,,	8	1 0	38 ⊼	22·92	...
D	Raveningham Hall [Beccles]	N. H. Bacon, Esq.	...	...	...	24·16	116
D	Saxlingham Nethergate	Mrs. Pitt	8	1 2	...	23·10	147
D	Wymondham	E. B. Pomeroy, Esq.	8	1 3	118 ⊼	23·99	180
	Watton	R. Martin, Esq.	5	1 0	166 T	21·62	155
D	Hingham	G. Dobbs, Esq.	5	1 1	188	23·96	170
	Norwich (Dunston Hall)	A. W. Preston, Esq.	..	...	...	25·21	...
D	Denver	,, ,, ,,	8	1 0	80 ⊼	23·32	142
D	Stoke Ferry (Wereham)	G. Read, Esq.	5	2 3	66	24·13	126
D	Wymondham (Hethersett)	A. W. Preston, Esq.	6	1 3	163	22·19	136
	Keswick Old Hall	E. Knight, Esq.	5	1 0	...	24·68	164
	,, Lodge	A. Cole, Esq.	5	...	...	24·73	182
	Outwell Sluice	A. Lunn, Esq., C.E.	9	...	16	22·26	137
D	Moulton	A. W. Preston, Esq.	...	...	...	17·31	129
	Emneth	F. M. Bland, Esq.	6	1 0	6	23·60	132
	Yarmouth (Sailors' Home)	The Meteor. Council	8	4 0	12	22·37	155
D	,, (Market Place) *new g.*	W. C. Steward, Esq.	5	1 0	...	22·43	164
D	Norwich (Postwick Hall)	Miss E. F. Cross	5	1 1	5	23·02	156
	,, (Carrow House)	R. J. Colman, Esq.	5	1 6	35 ⊼	22·52	113
D†	,, (Brundall)	A. W. Preston, Esq.	5	1 0	66 ⊼	23·94	174
D†	,, (Thorpe High House)	,, ,, ,,	5	1 0	137 T	22·47	138
D	,, (Essex Street)	F. Dix, Esq.	9	2 6	88 ⊼	22·87	149
D	,, (Ipswich Road)	J. H. Willis, Esq.	5	1 0	110 T	22·82	176
D*	,, (Newmarket Road)	J. T. Hotblack, Esq.	8	1 2	89 ⊼	24·60	204
D	,, (Heigham)	A. W. Preston, Esq.	5	3 2	37 ⊼	22·99	150

DIVISION IV.—EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	NORFOLK—(*con.*)						
D	Acle	F. Cufaude, Esq.	5	0 6	51	21·71	157
D	Swaffham	W. H. Plowright, Esq.	5	5 0	250 ⊼	23·88	152
	,, (Homewood)	F. Everett, Esq.	5	2 6	210	25·34	151
D	Sprowston (Oak Lodge)	T. Cozens Hardy, Esq.	5	1 0	101 ⊼	23·02	166
	East Dereham	G. H. Cooper, Esq.	8	3 0	161	24·04	131
D	Swaffham (Dunham)	A. G. Copeman, Esq.	5	1 1	320	23·75	166
D	Salhouse	Rev. T. F. Boddington	8	1 0	50	22·35	151
	Wiggenhall (Outlet Syphons)	A. Lunn, Esq., C.E.	8	1 6	...	23·77	131
D	TilneySt.Lawrence(Aylmer Hall)	W. B. Parsons, Esq.	8	1 0	9	23·37	174
D	Bylaugh Park Gardens	Mr. G. Beeton	5	1 0	130 T	27·45	152
D	Litcham (Mileham Hall)	A. Collison, Esq.	5	1 7	...	26·50	127
D	Reepham (Whitwell Vicarage)	F. W. Freeman, Esq.	8	2 0	120	24·40	166
D	Cawston	Rev. T. H. Marsh	5	1 0	135 T	24·27	167
	Aylsham (Woodgate)	B. J. W. Purdy, Esq.	5	1 0	100 T	25·79	145
D	North Walsham (Dilham)	Rev. J. A. Lawrence	5	0 8	...	25·72	186
D	,, ,, (Worstead)	R. Cross, Esq.	8	1 0	...	25·72	152
D	,, ,, (E.RustonGrange)	W. S. Horn, Esq.	5	1 0	20 T	23·73	151
	Hillington Rectory	Rev. H. Ffolkes	8	1 0	89 ⊼	24·25	189
D†	,, School	,, ,, ,,	5	3 6	94 ⊼	24·72	189
	Fakenham (Pensthorpe)	W. Hamond, Esq.	5	2 6	153	22·97	109
	Dersingham Vicarage	Rev. E. W. Penny	5	1 0	85	22·60	...
D	Cromer (Northrepps Hall)	S. E. Gurney, Esq.	5	0 4	200	23·97	188
D	Holt (The Yuccas)	Mr. T. A. Craske	5	1 3	210	25·87	169
D	,, (Field Dalling)	J. H. Pearson, Esq.	5	1 3	158 T	21·90	143
	Burnham Overy	Mr. W. L. Porritt	...	4 0	...	23·63	...
	Holkham	J. Davidson, Esq.	12	4 0	43	19·23	...
	Blakeney	C. I. Temple Lynes, Esq.	5	1 3	29	22·06	153

DIVISION V.—SOUTH WESTERN COUNTIES.

	WILTS.						
D	Larmer Grounds [Shaftesbury]	General Pitt Rivers, FRS	5	2 6	500 T	30·76	137
D	Rushmore [Shaftesbury]	,, ,, ,,	5	2 6	500 T	31·44	137
	Landford (Northlands)	Mrs. Wigram	5	1 10	167 ⊼	28·94	143
D	Donhead St. Mary (Charlton Ho.)	Col. G. Best	5	0 7	514	33·22	154
D†	Alderbury	Rev. Canon Hutchings.	5	0 8	263 ⊼	26·83	139
D	Tisbury (The Academy)	J. Bristol, Esq.	5	0 9	380 T	29·49	113
D	Salisbury (Tintinhull)	J. Lardner Green, Esq.	8	1 0	246 T	26·32	101
D	,, (St. Nicholas)	Rev. A. P. Morres	8	1 0	161 T	26·62	133
†	,, (Wilton House)	T. Challis, Esq.	8	0 5	180 ⊼	30·19	148
	Winterslow (Roche Court)	T. T. S. Metcalfe, Esq.	5	1 0	459 T	29·51	158
D	,, (,, ,,)*new g.*	,, ,, ,,	5	1 0	459 T	27·58	157
D†	Mere (Dews House)	the late J. F. Rutter, Esq.	5	1 7	384	25·99	119
†	,, Vicarage	Rev. J. A. Lloyd	5	3 0	370	29·22	...
D	,, (Charnage)	A. R. White, Esq.	5	1 0	426 T	30·27	156
†	Maiden Bradley	Duke of Somerset	8	1 6	626 T	36·85	151
D†	Warminster (Rye Hill)	S. E. Jefferys, Esq.	8	2 0	466 T	34·29	176

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	WILTS—(*con.*)						
	Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	25·67	...
D	Warminster (Downside)	Mrs. Stent	8	2 3	393	32·85	147
D	Ludgershall (Conholt Park)	G. Knowles, Esq.	5	1 0	750 T	30·50	165
D	,, (Collingbourne Kingston)	Baldwin Latham Esq CE	5	1 0	470 ⅄	25·50	131
D	Market Lavington	Mr. T. Selfe	5	3 0	300	27·05	155
D	Trowbridge (Water Works, Biss)	W.W. Gray, Esq., C.E.	5	1 0	311	35·30	130
D	,, (Rood Ashton)	Mr. W. Strugnell	8	1 6	250	29·66	137
D	,, (Lovemead)	Dr. Tayler	8	1 0	100 T	27·50	140
	Bradford (The Chantry)	Dr. Beddoe, F.R.S.	6	0 9	125	29·33	143
D	,, (Winsley Manor)	E. W. Knatchbull, Esq.	5	0 6	400	30·23	150
D	,, (Holt)	A. J. Beaven, Esq.	5	1 2	120	30·25	171
	Devizes (Wilts Co. Asylum)	Dr. Ireland Bowes	8	2 3	385 ⅄	26·52	135
D	Buttermere	Rev. W. E. Burkitt	5	2 6	847	29·29	155
D	Shalbourne (West Court)	Miss Barns	5	1 0	640 ?	29·42	150
D	Bishop's Cannings	Rev. C. W. Hony	5	1 0	446 ⅄	28·57	158
D	Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555 T	25·08	141
D	Chippenham (Lacock)	Miss Awdry	5	0 11	202 T	30·09	153
	Marlborough (Preshute House)	Mr. G. E. Mew	5	0 9	...	29·49	...
	,,	The Roy. Meteor. Soc.	5	1 0	450	28·73	156
D	,, (Mildenhall)	Rev. G. Soames	5	1 0	456	27·79	138
D	Calne (Calstone Rectory)	Rev. G. R. Hadow	5	0 9	382 T	31·38	153
D	,, (High Street)	Mr. H. Wilkins	5	3 6	244 T	27·84	133
D	,, (Compton Bassett)	Mr. W. A. Cook	8	1 0	385 T	31·59	154
	Yatesbury	Rev. E. D. Guillebaud.	5	0 9	564 ⅄	32·08	...
	Ramsbury (The Rookery)	F. C. Batson, Esq.	5	1 0	390 ⅄	23·42	140
D	Wootton Bassett	H. Bevir, Esq.	5	1 6	421 T	24·66	153
D†	Swindon, New	H. J. Southwell, Esq.	8	0 11	378	24·50	158
	Malmesbury (Charlton)	Lady Victoria Howard	8	0 6	...	31·29	130
	Highworth (Hannington Hall)	A.D.Hussey-Freke, Esq	5	1 0	400	24·80	147
	DORSET.						
D	Portland (The Manse)	Rev. W. R. Waugh	5	1 6	10	24·50	124
	Weymouth (Wyke Regis)	Mrs. Pretor	5	0 9	158 B	27·30	113
	,, (The Nothe)	The Royal Meteor. Soc.	5	1 0	79	24·90	117
D	Swanage (Royal Victoria Hotel)	H. B. Vincent, Esq.	5	1 11	26 T	26·07	122
	,,	Rev. H. Pix	5	2 0	60	27·46	125
	East Fleet (Fleet House)	Dorset Field Club	5	1 1	48	27·78	131
	Chickerell Rectory	,, ,, ,,	8	0 8	...	26·30	131
	,, (Montevidio)	,, ,, ,,	5	..	...	27·76	134
D	West Lulworth Vicarage	Rev. W. Percy Schuster	5	12 0	128 ⅄	26·44	118
D	Corfe Castle (Furzebrook)	L. W. Pike, Esq.	5	1 2	147 T	34·30	121
	Upwey (Broadway)	Dorset Field Club	5	7 6	75 ?	30·37	126
D	Abbotsbury (New Barn)	Mr. J. C. P. White	5	1 6	111 T	26·38	137
D	Portisham	W. Symes, Esq.	5	1 3	260	29·76	139
D	Winterbourne Steepleton	H. Stilwell, Esq.	8	1 0	316 ⅄	37·47	150
D	Wareham (Castle Gardens)	S. W. Bennett, Esq.	5	2 6	18	28·64	122
D	,, (Binnegar Hall)	O. C. Farrer, Esq.	5	1 0	65	31·92	146
D	Winterbourne Herringstone	R. B. White, Esq.	12	3 1	300	34·38	120

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell
			ft. in.	feet.	inches.	
DORSET—(*con.*)						
D Dorchester Water Works	G. J. Hunt, Esq.	8	1 2	315 ⩛	36·56	144
D ,, (Wollaston House)	Capt. Acland	5	1 0	200 ⩛	36·34	137
Poole (Hamworthy)	A. L. Scott, Esq.	5	1 6	12	25·05	...
D ,, (Parkstone)	R. H. Barnes, Esq.	5	0 11	198 ⩛	27·05	146
D ,, (,,) *new g.*	,, ,, ,,	5	1 0	198 ⩛	27·57	151
Lyme Regis (Colway Cottage)	J. Spurr, Esq.	5	1 0	250	29·67	139
D Bridport (Portville)	H. Gordon, Esq., C.E.	5	1 0	10 T	29·22	138
D ,, (Coneygar)	,, ,, ,,	5	1 0	110 T	32·44	140
D Bere Regis Vicarage	Rev. W. Farrer	5	1 0	160	27·74	128
,, ,, (Bloxworth Rectory)	Rev O. P. Cambridge FRS	5	1 3	205 T	28·84	125
D ,, ,, (,, House)	Col. Cambridge	5	2 0	100	27·85	117
D ,, ,, (Whitelovington)	F. D. Lys, Esq.	8	2 6	150 B	31·12	148
D Maiden Newton (Cattistock Lodge)	H. Hamilton Palairet Esq	5	1 0	350	34·82	134
D Sturminster Marshall (Bailie Ho.)	Rev. J. Cross	5	0 6	85	29·06	139
D Wimborne (Codford)	G H Batterbury, Esq. M.D	5	1 0	69 T	29·13	150
D ,, (Rowlands)	General Maclean	5	3 2	110 T	29·89	106
D Beaminster Vicarage	Rev. A. A. Leonard	5	1 0	216 T	32·17	149
,, (Tower View)	J. Andrews, Jun., Esq.	5	1 0	205 T	31·86	143
D Blandford (Whatcombe)	J. Mansel-Pleydell, Esq.	5	0 10	270 ⩛	31·93	157
Broadwindsor	G. C. Hutchings, Esq.	5	0 7	540 T	33·69	134
D ,, (Blackdown House)	C. E. M. Pinney, Esq.	5	0 9	515	33·86	153
Winterbourne Houghton	Dorset Field Club	8	0 6	230	32·10	118
D Cerne Abbas (Melbury)	Mr. R. Rintoul	5	1 6	500	33·85	132
D Chedington Court	Mr. G. Jones	5	1 0	605	31·82	131
D*Wimborne Minster (Chalbury)	Rev. G. H. Billington	5	2 0	338 ⩛	25·96	120
D ,, ,, (Horton)	Rev. G. Wellington	5	1 0	135 T	26·76	127
D Hazelbury Bryan Rectory	Rev. Canon Wheeler	5	1 0	305 ⩛	34·99	129
D Verwood	W. R. Fryer, Esq.	5	3 0	180	27·25	137
D Holwell (Westrow)	Mr. G. Coffin	5	1 0	252	29·78	126
D Iwerne Minster (Shroton)	Adl. Stopford	5	1 2	200	29·07	108
D Sturminster Newton (Riverside)	A. R. Hallett, Esq.	5	1 0	200	27·97	112
D Sherborne (Coombe Farm)	S. Creed, Esq.	5	...	...	30·04	158
Shaftesbury	Royal Meteor. Soc.	5	1 0	722	31·14	162
D Buckhorn Weston	Rev. W. Hughes D'Aeth	5	1 0	285	23·65	128
D Gillingham	S. H. Stephens, Esq.	5	1 2	244 T	30·13	148
DEVON.						
D Salcombe (Shadycombe)	Mr. T. Langmead	8	1 2	20	39·85	112
South Huish	W. Balkwill, Esq.	5	5 6	68 T	32·02	...
D Revelstoke (Membland)	Mr. G. Baker	5	1 0	180 T	33·83	123
Dartmouth (Redlap House)	L. Karslake, Esq.	5	1 1	220 T	33·08	163
D Dittisham (Chipton)	Mr. H. Bond	5	1 6	342	43·13	129
Plymouth (The Hoe)	H. V. Prigg, Esq., C.E.	8	0 10	117 ⩛	34·09	164
,, (Freedom Field)	,, ,, ,,	8	0 10	208 ⩛	34·92	164
D ,, (Drake's Reservoir)	E. Sandeman, Esq., C.E.	5	1 0	149 ⩛	34·05	145
D*Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1 0	201 ⩛	31·68	160
Ivybridge (Langham Hill) *old g.*	Miss Glanville	5	1 0	400 T	42·92	160
D ,, (,, ,,) *new g.*	,, ,,	5	1 0	400 T	44·31	160

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground. ft.	in.	Rain Gauge. Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
DEVON—(*con.*)							
Ivybridge (Blackadon Asylum)..	H. V. Prigg, Esq., C.E.	5	1	0	607	51·28	173
Plympton (Hemerdon) ...*garden*	Rev. G. L. Woolcombe	5	4	0	360	38·95	...
,, (,,)*tennis court*	,, ,, ,, ...	5	1	0	365	41·66	...
D South Brent (Great Aish).....	Miss Kingwell	5	1	0	500 T	57·49	174
D Totnes (Fernleigh).....	L. J. Oldreive, Esq. ...	5	1	1	94	46·48	136
Bere Ferrers	Rev. F. T. W. Wintle.	5	1	0	100	39·78	163
D Bickley (Roborough Reservoir)..	E. Sandeman, Esq., C.E.	5	1	0	550 ⊼	40·21	173
D Torquay (Cary Green)	the late C. Shapley, Esq.	5	1	0	12	34·90	142
D ,, (Chapel Hill)	A. Chandler, Esq.....	5	1	0	275	34·96	160
D ,, (,, ,, Tower)...	,, ,, ,, ...	5	10	0	286	33·19	159
D ,, (Watcombe Park)	Col. C. Ichabod Wright	5	1	0	483 ⊼	37·47	138
†Lee Moor Clay Works	T. Martin, Esq.	8	1	6	950 T	51·60	...
Buckfastleigh (Bossel Park) ...	J. Hamlyn, Esq.....	5	1	0	250	58·29	172
D Meavy (Yelverton)	Dr. H. J. S. Liddell ...	5	7	0	627 ⊼	51·04	157
D†Sheepstor Vicarage	Rev. C. H. Crooke.....	5	0	7	730 ⊼	46·65	129
,, ...	E. Sandeman, Esq., C.E.	5	1	0	1024 ⊼	45·94	...
D† ,, (Red Stone).....	,, ,, ,,	5	1	0	760 ⊼	49·50	172
D ,, (Burrator)	,, ,, ,,	5	1	0	755	50·89	168
D† ,, (Head Weir).....	,, ,, ,,	5	1	0	720 T	48·25	168
D†Dartmoor (Lowery)	H. Francis, Esq., C.E.	5	1	0	890 T	44·67	147
D† ,, (Deancombe Farm) ...	E. Sandeman, Esq., C.E.	5	1	0	830 ⊼	48·60	152
D† ,, (Leather Tor Farm)...	,, ,, ,,	5	1	0	910 ⊼	49·09	178
,, (Nuns Cross)	,, ,, ,,	5	1	0	1200 ⊼	45·55	...
,, (Cramber Tor)	,, ,, ,,	5	1	0	1435 T	42·63	...
,, (Leeden Tor).....	,, ,, ,,	5	1	0	1270	38·16	...
D Kingskerswell (South Hill)	E. A. Foster, Esq. ...	5	1	0	270 T	32·92	158
D Abbotskerswell (Court Grange)..	Mrs. Marcus Hare	5	1	0	150 B	43·18	126
D Ashburton (Holne Vic.)	Rev. J. Gill.....	5	1	6	650 B	46·69	182
D† ,, (Druid House).....	Fabyan Amery, Esq....	5	1	0	572 T	50·47	160
D Kingsteignton (Teignbridge Ho.)	F. H. Plumptre, Esq...	5	1	2	27 ⊼	38·95	147
Teignmouth (Bitton Street).....	W. C. Lake, Esq., M.D.	5	1	0	70	30·50	137
D ,, (Woodlands).....	W. B. Harris, Esq. ...	8	1	2	98	33·46	142
,, (Bonnicliff)	Capt. J. Horner.....	5	1	0	260 T	33·51	153
D Tavistock(Statsford, Whitchurch)	E. E. Glyde, Esq.	5	1	0	594 ⊼	47·79	190
D† ,, (Public Library)	Mr. J. Quick	8	20	0	283 T	40·32	173
Princetown	The Royal Meteor. Soc.	5	...		...	66·84	158
Dartmoor (Cowsic Valley).....	H. Francis, Esq., C.E.	8	1	6	1352 ⊼	65·75	...
D Chudleigh (Ideford)	Rev. G. J. Ford.....	4	1	0	300 ⊼	37·41	171
Bovey Tracey (Little Bradley)...	Miss C. N. Phillpotts...	5	1	0	120	35·15	137
D ,, ,, (Colehays)	Mr. E. E. Underdown.	5	1	3	415 T	49·54	152
†Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1	0	180 T	38·97	...
D Dawlish (Mamhead Rect.)	Rev. W. C. Plenderleath	5	1	0	467 ⊼	41·25	179
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall ...	5	2	0	60	30·43	130
D Exmouth (Nidderdale)	Mrs. Stewart	5	1	0	51	29·85	128
D ,, (Betworth)	C. M. Powell, Esq.....	5	1	0	115 T	31·10	153
D Chudleigh (Tottiford)	W. Ingham, Esq., C.E.	8	4	0	718 ⊼	43·43	173
,, (Trusham)	Rev. O. H Cary	5	1	0	322 T	40·56	149
D Budleigh Salterton (Syon House)	H. Drummond, Esq....	5	1	0	...	29·41	142

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
DEVON—(*con.*)						
D Budleigh Salterton (Bicton)	Mr. Mayne	5	1 0	90	29·70	133
D Kenton (Southtown House)	Major Courtenay	8	2 6	56 ⅄	36·16	151
Coryton	Mr. T. M. Symons	5	2 0	285	39·81	153
D Polapit Tamar [Launceston]	R. C. Coode, Esq.	5	2 9	315 ⅄	36·83	175
Yeolmbridge	Mrs. Boyd-Wallis	5	4 10	260 T	36·54	173
D Christow (W. W., Kennick)	W. Ingham, Esq., C.E.	8	1 0	842 ⅄	41·33	178
,, (Laployd)	,, ,, ,,	5	1 0	1030 ⅄	36·29	...
,, (Blackingstone)	,, ,, ,,	5	1 0	1090 ⅄	32·18	...
†Sidmouth (Sidmount)	The Royal Meteor. Soc.	5	1 0	149 ⅄	30·41	159
D*Rousdon [Lyme Regis]	Sir C. E. Peek, Bt.	5	1 0	516 ⅄	29·31	150
* ,, [,, ,,] ..... M	,, ,, ,,	3	1 0	516 ⅄	27·90	...
D†Clevelands [Lyme Regis]	Mr. C. W. Bloye	5	1 11	465 ⅄	30·59	149
Exeter (Heavitree)	R. H. Cecil Baker, Esq.	8	1 2	175 B	33·10	136
D ,, (Devon & Exet. Inst.)	A. R. Allinson, Esq.	5	13 7	155 ⅄	33·13	165
D† ,, (Manston Terrace)	Miss Dymond	5	1 0	166 ⅄	31·62	156
D ,, (,, ,,)	,, ,,	5	1 0	166 ⅄	32·07	156
D ,, (Elmfield)	W. B. Heberden, Esq. CB	5	4 0	100	32·18	149
D†Okehampton (Oaklands)	Genl. Holley	5	1 0	521 T	46·44	156
Exeter (Brampford Speke Station)	Mr. A. Tucker	5	1 0	83	31·78	118
D Honiton (Ivedon)	Col. James	5	1 0	430 T	28·60	162
D Cullompton	T. Turner, Esq.	5	1 0	202 ⅄	37·00	172
D Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 T	39·64	164
D Tiverton (Broomhill)	Mrs. Dickinson	5	1 0	380	38·08	162
D ,, (St. Peter Street)	Miss Gill	5	6 0	270	37·11	184
D Otterford (Otterhead)	R. Lewis Lloyd, Esq.	5	1 0	735 ⅄	35·87	174
D Torrington (Stevenstone)	Mr. W. Gillies	5	1 0	420	40·09	181
D ,, (Little Silver)	Mr. P. H. Griffin	5	1 0	395	40·75	188
D Parkham (Melbury Moor)	Baldwin Latham Esq CE	5	1 0	623	50·01	212
D ,, (,, Reservoir)	,, ,, ,,	5	1 0	516 ⅄	49·79	203
D Romansleigh Rectory	Rev. J. H. Thompson	5	1 0	590 T	37·23	202
D Bampton (Huntsham)	H. Acland Troyte, Esq.	8	1 0	640	45·10	170
D ,, (Wonham)	Mrs. J. R. Holland	5	1 0	530	40·27	177
D Hartland Abbey	Mr. G. Sleep	5	1 6	222 T	37·78	151
Alverdiscott (The Firs)	F. A. Trevan, Esq.	5	2 6	330 T	39·19	170
D Abbotsham (Riccard's Down)	Mrs. Hibbert	5	1 0	97 ⅄	35·22	174
D South Molton (East Street)	N.C. Hatherly, Esq. M.D	5	1 0	430 B	40·23	179
,, ,,	Rev. F. King	5	1 0	515 T	41·26	195
D ,, ,, (Castle Hill School)	Mr. W. H. Reeve	8	1 0	363	41·72	211
,, ,, (,, ,, Gardens)	T. Wainwright, Esq.	...	...	...	42·97	185
D Bideford (Gammaton W. W.)	Baldwin Latham Esq CE	5	1 0	335 ⅄	40·89	162
*† ,, (Horwood)	Rev. J. Dene	5	1 0	288 T	32·59	180
,, (Northam, St. Helen's)	the late Miss L. Bowles	5	0 10	67 T	34·11	178
D*† ,, (,,)	Rev. Preb. Churchward	5	1 0	173 ⅄	36·01	157
Westward Ho. Beacon Lights	T. Wainwright, Esq.	...	...	...	29·11	169
Instow	Miss Lock	5	1 0	100 B	31·80	144
D Barnstaple Athenæum	T. Wainwright, Esq.	8	1 0	25 T	33·13	170
Braunton (Preston House)	Miss Durham	...	...	...	29·50	133
D Barnstaple (Arlington Court)	Lady Chichester	5	1 1	613 B	51·71	198

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell
			ft. in.	feet.	inches.	
DEVON—(*con.*)						
Barnstaple (Arlington Court) ...	Lady Chichester.....	5	1 0	613 B	54·05	198
D Woolacombe	E. Henshall, Esq., C.E.	5	1 0	60 ⩛	31·23	171
Parracombe	Rev. J. F. Chanter ...	5	3 0	795 T	46·31	174
Ilfracombe Hotel..... *new gauge*	The Royal Meteor. Soc.	5	1 0	24	38·37	160
D Martinhoe Rectory.....	Rev. R. W. Oldham ...	5	2 3	808	45·18	177
†Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	320 T	38·70	...
D ,, (Gwynallt)	A. L. Ford, Esq.	8	0 8	284 T	45·01	173
D ,, (Glenthorne).....	Mr. Totterdell	5	0 9	93	47·67	151
D ,, (Rock House)	T. H. Mead-Briggs, Esq.	5	0 11	20	40·35	172
CORNWALL.						
Mullion	R. Thomas, Esq.	5	1 0	200	28·61	160
D Penzance (Morrabs)	Mr. C. H. Benn	5	1 0	55	35·11	193
,, ...	R. Godfrey, Esq., C.E.	5	0 9	...	35·46	132
,, (Penlee)	J. Branwell, Esq.	5	1 0	71 T	36·00	180
D ,, (St. Clare)	Rev. Preben. Hedgeland	5	1 0	213 T	36·16	193
Marazion.....	T. W. Field, Esq.	5	2 0	30 ?	31·86	174
St. Just West.....	Gavin Hope, Esq.	...	...	386	34·90	...
D Falmouth (New Observatory) ...	E. Kitto, Esq.	11	2 0	169 T	38·44	169
,, (,, ,,) ...	,, ,, ...	8	1 9	169 T	37·84	174
D ,, (Gyllyngvase)	A Wilson, Esq.....	8	1 0	50	35·02	171
D Flushing (Trefusis)	W. Knatchbull, Esq....	5	3 6	200	36·49	155
D Falmouth (Carclew)	Mr. J. Simmons.....	5	0 9	...	38·32	149
D St. Ives (Phillack Rectory)	Rev. Canon Hockin ...	5	1 0	70	31·42	172
,, ,, ...	Dr. J. M. Nicholls.....	5	4 0	138 ⩛	37·39	...
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	38·75	172
,, (Tolvean).....	A. Lanyon, Esq.....	5	0 9	365	40·01	179
D ,, (Trewirgie)	A. P. Jenkin, Esq.....	5	1 0	400 T	38·94	201
D ,, (Tehidy Park).....	Mr. A. Mitchell.....	8	1 1	287 ⩛	37·28	184
D Truro (Killiow).....	J. C. Daubuz, Esq.....	5	1 0	230 T	37·10	170
D† ,, (Royal Institution).....	R. A. Greg, Esq.	5	43 0	83 ⩛	34·88	163
D ,, (W.W.,Lower Tregurrow)	Mr. W. J. Lean	5	9 0	71 ⩛	38·31	180
,, (Agar Villa)	Mr. C. Barrett	5	3 9	50 B	39·06	...
Grampound (Heligan)	Gavin Hope, Esq.	...	...	...	33·14	151
D Probus (Lamellyn).....	H. Tresawna, Esq.....	5	0 6	...	36·34	138
St. Agnes	Mr. Opie	5	1 3	278 B	32·77	155
D Fowey (Menabilly)	Mr. W. H. Bennett ...	5	1 0	150	39·12	148
D†*St Austell (Trevarna).....	W. M. Coode, Esq. ...	5	0 6	300 ⩛	40·94	192
Par Station (Penellick).....	W. E. Geach, Esq. ...	5	0 9	240 T	31·44	...
Empacombe [Devonport]	J. Sandercock, Esq. ...	5	0 6	20 T	33·22	158
D Cremyll [,,]	Mr. W. Wonnacott ...	5	20 0	25	30·65	157
D Antony Ho. [,,]	Mrs. Pole Carew.....	5	1 0	100 T	36·80	178
D St. Germans (Trethill)	J. D. A. Roberts, Esq..	5	2 0	200 B	33·16	145
D West Looe (Morval)	Miss Florence Tremayne	5	1 0	138	39·70	156
D Lostwithiel (Lanwithan)	Miss Foster.....	10	1 0	80	39·88	165
D Newquay (Prospect House)	A. Hardwick, Esq., M.D.	5	1 0	130	34·78	176
D Menheniot (Coldrenick House)...	E. Jago, Esq.....	5	1 4	...	41·00	173

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
CORNWALL—(*con.*)						
D†Liskeard (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	375 ⅄	43·99	182
D ,, (Trevillis)	L. C. Foster, Esq.	5	1 0	320 T	37·96	163
†Saltash (Pentillie Castle)	Mr. W. T. Johnson	5	2 4	150 B	44·91	183
D†Bodmin (Lanhydrock)	Rev. Prebendary Every	5	1 0	390	47·00	201
,, (Treledan)	H. D. Foster, Esq.	5	1 0	290	47·52	...
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq., C.E.	5	1 1	620 T	37·80	...
Callington (Hingston Down)	Mr. Wadge	5	3 0	850 T	39·51	164
D†Launceston (Altarnon)	Rev. A. H. Malan	5	1 0	570 B	57·62	231
D ,, (Tamar Terrace)	Captain L. Ching, R.N.	5	0 10	446	40·62	177
North Tamerton (Ogbeare)	Mr. J. S. Bray	5	4 0	460 T	36·23	171
D Bude	J. Arthur, Esq.	5	1 0	16 B	28·50	132
SOMERSET.						
D Crewkerne (Bincombe House)	Miss Sparks	5	1 2	293 T	30·07	140
D Yeovil (West Coker)	Major Aldworth	5	1 0	260 T	30·67	170
D ,, (Gas Works)	E. Howell, Esq.	5	1 0	110 T	27·38	126
D Ilminster (Bay House)	J. C. Baker, Esq.	5	1 0	215 T	28·62	149
D ,, (White Lackington)	Rev. Prebendry Gowring	5	1 0	136 ⅄	30·25	154
,, (Ilton Vicarage)	Rev. R. B. Poole	5	1 0	100 ⅄	25·88	...
D ,, (,, ,,)	,, ,, ,,	8	0 10	104 T	28·72	185
D Taunton (Blagdon Hill)	H. T. Coles, Esq.	8	1 6	588 ⅄	33·42	114
D ,, (Leigh Hill)	,, ,, ,,	8	1 6	525 ⅄	32·24	114
D Wellington (The Avenue)	F. J. Burnett, Esq.	5	0 10	254 T	30·01	160
Temple Combe Rectory	Rev. J. C. Fox	5	0 6	215	32·14	147
D Taunton (Claremont)	E. Ball, Esq.	8	1 2	80 T	24·95	146
D Milverton (The Nook)	Miss F. E. Bere	5	1 0	265	32·65	180
D North Cadbury Rectory	Rev. H. A. Boys	8	1 3	256 ⅄	26·62	149
D Taunton (The Mount, Halse)	Miss Smith	5	1 1	254	33·93	203
D ,, (The Priory, Ash Priors)	Rev. G. S. L. Little	5	1 0	208 ⅄	30·33	156
D Wincanton	Rev. W. Farrer	8	1 0	344	30·76	167
Cothelston House	C. E. J. Esdaile, Esq.	5	1 0	430	30·84	160
D North Petherton (The Old Rectory)	E. C. Curtis, Esq.	8	0 6	122	28·01	145
Castle Cary (Pitcombe Vicarage)	Rev. D. E. Norton	5	1 2	310 T	30·68	...
D Somerton (Butleigh Court)	R. Neville Grenville Esq.	8	1 2	80	25·48	121
Bruton (King's School)	Rev. D. E. Norton	5	0 10	280	34·98	...
Winsford	Rev. Preb. Anderson	5	1 2	630	50·04	...
D Glastonbury (Street)	W. S. Clark, Esq.	8	0 6	100	24·07	158
,, (High Street)	J. Spire, Esq.	8	7 0	94 ⅄	25·08	152
D ,, (Ynyswytryn)	Mrs. Swayne	5	1 8	245 T	27·10	162
D Bridgwater (Enmore Park)	T. P. Broadmead, Esq.	8	1 9	268	31·08	119
,, (Nurseries)	H. Corder, Esq.	5	1 0	...	26·96	150
D ,, (Ashford)	F. Parr, Esq., C.E.	5	...	...	29·44	140
,, (Nether Stowey)	W. D'Oyly, Esq.	5	0 10	211	29·44	147
,, (Fiddington)	E. R. Case, Esq.	8	5 0	120	26·75	...
Exmoor (Simonsbath)	T. Wainwright, Esq.	...	...	...	66·00	187
D Holford (Woodlands House)	Miss I. L. Joseph	5	0 9	391 T	33·92	179

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
SOMERSET—(*con.*)						
Stockland Bristol Manor House..	Rev. H. A. Daniel.....	5	1 0	65	28·69	126
D Shepton Mallet (Charlton)	F. H. Berryman, Esq..	5	1 0	481 ⊼	36·16	146
D Wells (The Deanery Gardens)...	Mr. A. King	5	1 0	170 ⊼	30·15	151
Minehead	Rev. J. Utten Todd ...	5	1 0	41 ⊼	33·96	153
D Cranmore (Cranmore Hall)	Sir R.H.Paget,Bt.,M.P.	8	1 0	600 T	34·49	145
D Frome (Mells Rectory)	Mrs. Horner	5	1 0	344 ⊼	35·50	161
D ,, (Orchardleigh)	Rev. W. A. Duckworth	8	0 10	303 T	30·32	147
Radstock (Downside College) ...	Rev. F. P. Whiteside..	8	0 11	600 ⊼	41·43	131
D Chewton Mendip (The Priory)...	Rt Hon Earl Waldegrave	5	1 5	550 T	40·77	159
,, ,, (Waldegrave Ho.)	J. Hansford Hill, Esq.	10	4 6	450	42·29	150
Ston Easton	H. E. Hippisley, Esq .	5	3 0	480 ⊼	38·74	152
E.Harptree(Sherborne Reservoir)	Bristol Water Works...	5	1 0	338 T	36·73	145
D ,, (Harptree Court) ...	W. W. Kettlewell, Esq.	5	1 0	346 ⊼	40·27	154
Axbridge (Loxton Rectory) ...	Rev. J. E. Page.....	...	...	...	32·87	155
,, (Winscombe Court)...	Rev. R. F. Follett	8	1 0	180 T	30·92	116
Radstock (Camerton Court)	Mr. J. Milne	5	1 6	...	35·99	128
D ,, (High Littleton)	Rev. A. M. Foster	5	0 10	442 ⊼	34·51	154
D Hutton Rectory	Rev. W. F. Rose	5	1 0	75 ?	29·65	151
D Pensford (Sutton Court)	Sir E. Strachey, Bt. ...	8	1 0	280	39·68	166
D Churchill (Springfield)	S. B. Pumphrey, Esq..	5	1 1	...	29·63	134
Weston-super-Mare (High St.)..	The Royal Meteor. Soc.	5	1 0	20	26·69	139
D ,, ,, ,, (Beaufort Rd.)	W. A. Fussel, Esq. ...	8	5 0	23 T	29·82	152
D ,, ,, ,, (Worle)	St. J. Kemm, Esq.....	5	1 6	...	29·06	157
Bath (Combe Hay Manor)	F. G. Smart, Esq.....	5	1 0	...	31·60	140
D Wrington (The Rectory)	Rev. G. M. Ashdown...	5	5 0	68	33·11	146
,, (West Hay).....	Gen. Harrison.....	5	2 0	100 T	35·49	142
Chew Magna	Bristol Water Works...	5	1 0	160 T	33·30	143
D† Bath (Royal Institution)	F. Möckler, Esq.	6	8 0	75	29·10	148
D ,, (Henrietta Park)	Dr. W. H. Symons ...	5	1 0	70 ⊼	29·29	144
D ,, (Kingswood School)	,, ,, ,, ...	5	1 0	620 ⊼	28·90	131
D ,, (Hampstead, Combe Park).	,, ,, ,, ...	5	1 0	165 ⊼	29·82	146
D ,, (Fairley, Weston)	C. H. B. Hambly, Esq.	5	1 6	200	28·92	150
,, (,, ,,).....M	,, ,, ,,	5	1 6	200	28·77	...
,, (Charlcombe).....	C. Gilby, Esq., C.E. ...	8	2 0	325 T	28·86	133
D Batheaston	Col. Linley Blathwayt.	5	1 0	166 ⊼	28·64	145
,, ...M	,, ,, ,,	5	1 0	166 ⊼	28·45	...
,, Reservoir	C. Gilby, Esq., C.E. ...	5	2 0	248 ⊼	27·54	130
Yatton (Chelvey)	Bristol Water Works...	7	0 10	...	32·93	127
Barrow Gurney Reservoir	,, ,, ,, ...	5	1 0	320 T	36·10	153
D Long Ashton Estate Office	T. Dyke, Esq., C.E. ...	8	1 0	134 ⊼	33·05	153
Flax Bourton (Tyntesfield)	A. Gibbs, Esq.	5	1 7	320 T	31·72	152
D Clevedon (Water Works).....	E. Button, Esq.....	5	0 9	28 ⊼	28·84	106
Bristol (Coronation Road)	H. C. Martin, Esq. ...	5	0 10	50	32·50	..
Wraxall	Rev. H. Vaughan	5	0 11	191	35·72	159
D Abbots Leigh	H. R. Miles, Esq.	5	1 0	333 T	34·64	137
D Failand House [Bristol]	Miss Fry.....	5	1 0	400	34·40	169

DIVISION VI.—WEST MIDLAND COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	GLOUCESTER.						
	Monkswood Reservoir [Bath]	C. Gilby, Esq., C.E.	5	1 0	365 T	28·55	169
D	Bristol Docks (Underfall Yard)	W. W. Squire, Esq., C.E.	8	19 6	45 T	29·15	151
	,, (Small Street)	Bristol Water Works	12	33 10	52	32·31	136
D	Clifton (Royal York Crescent)	Miss Bridge	5	8 2	226 T	33·71	178
D	,, (Cecil Road)	Miss Hooper	5	1 5	230	33·39	163
D	,, (Pembroke Road)	R. F. Sturge, Esq.	8	1 0	215	33·65	155
D	,, College	D. Rintoul, Esq.	8	1 2	230	35·49	141
	Bristol (Redland Green)	T. D. Sibly, Esq.	5	1 3	282	33·60	159
D	,, (The Grove, Fishponds)	H. H. Harding, Esq.	5	1 0	160 T	29·91	149
	Westbury-on-Trym (Cote House)	H. St. V. Ames, Esq.	8	1 3	243 ⅄	32·56	131
D	Horfield (H.M. Prison)	J. E. Prichard, Esq., MB	5	0 10	202 ⅄	30·79	134
	Pucklechurch	Rev. S. G. Gillum	5	0 10	370 T	31·04	150
D	Filton	F. W. Gayner, Esq.	5	2 0	266	29·80	142
D	Chipping Sodbury (Frampton Cotl)	J. Marsh, Esq.	5	1 0	180 ⅄	27·49	133
D	,, ,, (Stanshawes Ct)	R. N. Hooper, Esq.	5	1 3	280 ⅄	30·16	146
D	Bristol (Over Court Park)	R. C. C. Lippincott, Esq.	5	0 9	147 T	32·70	176
D	,, (,, ,, Garden)	,, ,, ,,	8	1 0	137 T	30·10	173
	Badminton	Mr. W. Nash	5	1 0	407	31·86	134
D	Wickwar Rectory	Rev. R. J. Lyon	5	1 0	260 ⅄	26·90	141
	Alderley	Gen. Hale	5	1 0	310 T	30·10	...
	Tortworth Court	Mr. T. Edington	8	1 0	264	28·82	164
	Dursley (Farnley)	R. W. Pinney, Esq.	5	0 10	251 T	29·21	123
D	Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	...	23·63	155
D	,, (Horcott)	R. A. Iles, Esq.	5	2 6	...	24·26	125
D	Berkeley (Castle Gardens)	Mr. R. Shore	5	1 6	62 T	27·15	126
D	,, (Sharpness New Docks)	F. A. Jones, Esq., C.E.	8	3 9	50	27·54	147
D	Lechlade	T. Arkell, Esq.	5	0 9	253	22·85	129
	,, (Southrop)	,, ,, ,,	...	1 0	...	24·64	116
D	Amberley (Highlands)	Mrs. Blackwell	8	0 10	550 T	26·41	116
D	Woodchester (Culver House)	Mrs. Davidson	5	1 0	372 T	27·53	124
D	Chelford (Hyde House)	Piers F. Legh, Esq.	5	1 6	545 T	28·23	163
D	Lydney (Clanna)	Col. Marling	5	1 0	260 T	34·92	145
D	,, (Priors Mesne)	H. Cook, Esq., M.D.	5	1 6	500 T	34·12	131
	Cirencester (Roy. Agricultl. Coll.)	Prof. Locke	5	1 0	443 ⅄	26·79	147
	,,	C. P. Hooker, Esq.	5	1 0	...	30·43	158
D	,, (Further Barton)	Miss J. E. A. Brown	5	1 0	422 ⅄	28·75	149
D	Stroud (Stanley Park)	W. J. Paley Marling, Esq	8	1 0	365 T	25·81	142
D	,, (The Acre)	P. Witchell, Esq.	5	1 0	300	26·18	137
D	,, (Upfield)	Miss Stanton	5	1 0	226 ⅄	25·20	157
	Stonehouse (Wycliffe College)	F. A. Sibly, Esq.	8	1 0	120	26·85	138
D	Fairford (Hatherop Rectory)	Rev. R. P. Davies	8	1 3	411 ⅄	26·38	161
D	Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32 ⅄	26·40	157
	Haresfield Court	Mr. S. Pearce	5	1 0	100	24·97	147
	Coleford (The Coombs)	R. Tyrer, Esq.	5	1 0	660	44·25	192
D	Westbury-on-Severn (Chaxhill)	H. S. Grant, Esq.	5	1 0	120 T	28·18	134
D	Great Barrington	H. J. Barrett, Esq.	5	1 6	430 T	25·49	130
	Northleach (Sherborne House)	Mr. Scott	5	1 0	405	26·74	125
	Gloucester (Quedgeley House)	W. G. Robinson, Esq.	5	1 0	65 T	25·51	152

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1899 inches.	Days on which '01 or more fell.
GLOUCESTER—(*con.*)							
D Gloucester (Birdlip Hill)	A. S. Helps, Esq.	5	1	0	800 ⅄	25·72	144
,, (,, ,,)..*new g.*	,, ,, ,, ...	5	1	0	800 ⅄	27·88	144
D ,, (Witcombe Res.).....	R. Read, Esq., C.E. ...	8	3	0	297 ⅄	25·90	135
D Mitcheldean (Blaisdon)...	P. Stubs, Esq.	5	1	0	117 ⅄	30·58	160
,, (,,)..... M	,, ,, ...	5	1	0	117 ⅄	30·50	...
D Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1	6	70 ⅄	25·16	166
D ,, (Llanthony Lock) ...	E.D.Marten, Esq., C.E.	5	1	2	39 ⅄	24·63	148
,, (Denmark Road).....	A. J. Stephens, Esq....	5	1	0	50	23·90	...
D ,, (Lower Barton Street)	W. P. Brown, Esq. ..	5	1	0	65 ⅄	23·98	139
,, (Churcham)	L. H. Hall, Esq.	5	2	1	90	27·98	130
D ,, (Wotton Asylum).....	B. B. Smyth, Esq.....	8	0	9	90 ⅄	24·08	147
D Cheltenham (Dowdeswell).....	J. Hall, Esq., C E.....	5	1	0	357	26·54	153
D ,, (,,).....	A. E. Moss, Esq.	5	0	11	650	28·68	171
D†Gloucester (Maisemore Lock) ...	E.D.Marten, Esq., C.E.	5	1	1	39 ⅄	22·17	150
D Bourton-on-the-Water.....	E. W. Kendall, Esq....	5	1	0	434 T	26·12	137
,, ,, ,, (Chardwar)	G. F. Moore, Esq.	5	2	6	230	25·26	150
D Cheltenham (Battledown).....	Sir Brook Kay, Bt. ...	5	0	8	393 ⅄	25·29	141
D ,, (Northfield)	J. Hall, Esq., C.E.....	8	5	0	637 ⅄	22·47	140
D ,, (Hewletts Res.) ...	,, ,, ,, ...	8	1	6	419 ⅄	26·03	141
D ,, (Sandford)	,, ,, ,, ...	5	2	8	210	23·64	128
D ,, (NauntonPk.Villas)	M.LlewellynEvans,Esq	5	0	9	240	25·41	146
D ,, (Heath Lodge) ...	Rev. M. A. Smelt	8	1	0	206	26·35	160
D ,, (Southam Villa) . .	R. Tyrer, Esq.	5	1	0	184 ⅄	25·72	162
,, (,, ,,) M	,, ,, ,, ...	5	1	0	184 ⅄	23·96	...
D Stow-on-the-Wold (Oddington).	Rev. H. B. Heberden..	5	0	9	400	24·06	148
Winchcombe	J. Halliwell	5	1	0	310 T	27·49	156
D Moreton-in-Marsh (Longbro)*new*	W. Arkell, Esq.....	5	1	0	575	27·86	152
D†Tewkesbury (Upper Lode)	E.D. Marten, Esq., C.E.	5	1	0	41 ⅄	25·56	109
D ,, ...	J. Hall, Esq., C.E.....	5	0	10	47	22·50	119
D ,, (Beckford)	F. Slade, Esq., C.E. ...	8	1	0	120 ⅄	21·61	148
D Chipping Campden (Hidcote) ...	Capt. W. Wright	5	1	0	525	20·07	123
HEREFORD.							
D Ross (Croome Hall)	W. E. Hancock, Esq...	8	4	0	288 ⅄	28·86	146
D† ,, (The Graig)	H. Southall, Esq.	5	1	0	213 ⅄	25·44	171
Upton Bishop (The Baches).....	W. Hogarth, Esq.....	5	1	0	300	24·14	117
Much Dewchurch (Bryngwyn)...	SirJ.Rankin,Bart.M.P.	5	0	9	416 T	29·92	169
Much Marcle (Claremont).....	Mrs. Freeman.....	5	1	0	227 T	26·04	155
,, ,, (Caerswall)	T. Charles, Esq.....	5	1	0	423 B	26·52	152
D Fownhope (Morney Cross)	O. E. Cresswell, Esq....	5	1	5	...	25·16	136
D†Ledbury (Orchardleigh)	M. A. Wood, Esq.....	5	3	0	180	24·64	151
D ,, (Underdown)	S. H. Bickham, Esq....	5	1	0	307 ⅄	25·68	156
,, (,,) .....M	,, ,, ,, ...	5	1	0	306 ⅄	25·19	...
,, (Putley Court)	J. Riley, Esq.....	5	1	0	290	26·74	147
D Hereford (Breinton Court)	H. A. Wadworth, Esq.	5	1	0	238 T	25·00	158
D ,, (St. Owen Street)	Mrs. Jay Jones	5	6	0	190 T	26·80	164
D Lugwardine (The Laurels)	Mr. C. J. Johnstone ...	5	1	0	270 T	24·80	145
Yarkhill Vicarage.....	Rev. A. G. Jones	8	1	0	190	24·05	159

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
			ft. in.	feet.	inches.	
HEREFORD—(*con.*)						
D Canon Frome Vicarage	Rev. M. Hopton	8	1 3	252 T	23·74	155
D†Malvern Hills (Upper Wych)	BaldwinLathamEsqCE	5	1 0	1006 ⊼	24·55	118
D Hereford (Burghill Court)	Miss E. D. Woodhouse	5	0 10	293 T	25·93	176
Brinsop Vicarage	Rev. A. Relton	5	1 0	285 T	22·58	139
Bodenham Vicarage	late Rev. H. C. Sturges	5	0 9	250 T	24·24	...
D Hope-u-Dinmore (Hampton Ct.)	J. H. Arkwright, Esq..	8	1 2	212 B	25·96	163
D Weobley (Dilwyn)	T. L. Hall, Esq., M.D.	5	0 8	290 T	27·04	176
D Kington (Lynhales)	S. Robinson, Esq.	8	1 0	566	31·14	204
D ,, (Gravel Hill)	Col. G. F. Pearson	5	0 8	540 T	33·58	204
D Pembridge (Marston)	H. Langston, Esq.	5	1 5	347 ⊼	29·29	159
Bromyard (Buckenhill)	R. Phipps, Esq.	8	1 9	...	28·01	129
D Leominster (Farm)	Miss Southall	5	1 6	268	26·43	155
SHROPSHIRE.						
D Ludlow (Ashford)	Rev. J. Selwood Tanner	5	1 2	265 T	27·21	159
D ,, (,, House)	W. Downes Hall, Esq.	5	0 5	315 T	29·95	184
D ,, (The Sheet)	Rev. R. P. Dansey	5	1 0	370 T	29·05	158
D Cleobury Mortimer (The College)	J. Davis, Esq.	5	3 8	440 T	21·87?	137
D Bromfield (Priors Halton)	Miss Beddoes	5	1 0	300	29·84	205
D ,, (Oakley Park)	Mr. T. Reason	5	1 0	300	28·10	185
D ,, Vicarage	Rev. W. Selwyn	5	1 0	300 T	27·82	171
D Clunbury Vicarage	Rev. W. Clark Maxwell	5	1 0	497	30·88	134
D Craven Arms (Stokesay Vicarage)	Miss La Touche	5	1 0	371 ⊼	26·78	150
Bishop's Castle (Totterton)	W. H. Whitaker, Esq.	5	0 7	700	31·57	...
,, ,, (Castle Street)	E. Griffiths, Esq.	5	2 0	720 B	29·88	168
,, ,, (Cabin) M	,, ,, ,,	5	0 9	810 ⊼	30·16	...
Bridgnorth (Quatford)	Rev. W. J. Pinckney	5	1 0	170 T	24·55	170
Church Stretton (Longhills)	Rev. Preb. Elliot	5	1 0	680	33·48	171
D ,, ,, (Burway Ho.)	H. Barnett, Esq., M.D.	5	1 0	675 ⊼	33·67	169
D Bridgnorth (Cantreyn Bank)	Rev. H. M. Stallybrass	6	3 9	320 ⊼	32·82	135
D ,, (Aldenham Park)	H. J. Wyley, Esq.	5	3 9	430 T	28·05	149
Church Stretton (Preen Manor)	C. B. Sparrow, Esq.	5	1 0	700 T	28·43	150
D ,, ,, (Woolstaston)	the late Rev. E. D. Carr	5	1 0	800 ⊼	28·65	171
D Middleton Chirbury	Rev. W. Brewster	5	1 2	702 ⊼	27·11	188
D Much Wenlock (Willey Park)	Rt. Hon. Lord Forester	5	1 0	502 ⊼	26·55	160
D Pontesbury (Somerville)	W. R. Croft, Esq.	5	1 6	355 T	25·01	133
Minsterley (Hampton Hall)	J. Whitaker, Esq.	...	1 0	630 T	30·55	...
D ,, (Wallop)	the late J. E. Severne Esq	8	1 3	700 T	37·68	168
D Shifnal (Hatton Grange)	Col. Kenyon-Slaney, MP	5	4 2	261	26·82	170
,, (Neachley)	Hon F. Bridgeman	5	1 6	280 T	28·40	170
D ,, (Haughton Hall)	Mr. A S. Kemp	5	3 0	355	28·95	150
D Shrewsbury (The Abbey House)	Miss F. Rouse Boughton	8	1 3	171 ⊼	24·57	151
,,	W. Chapple Eddowes Esq	8	1 3	174 ⊼	26·43	120
,, (Highfield)	T. M. Howells, Esq.	8	1 6	250	27·35	...
,, (Roden)	The Royal Meteor. Soc.	...	...	...	24·52	137
D Newport (Edgmond)	J. Bodenham, Esq.	8	1 0	261 T	26·66	172
Hadnall (Hardwick Grange)	Mr. J. Taylor	5	1 6	275 T	23·55	...
D Wem (The Clive Vic.)	Rev. J. Cooper Wood	5	1 0	299 ⊼	24·38	213

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell
				ft. in.	feet.	inches.	
	SHROPSHIRE—(*con.*)						
D	Cheswardine (Knighton Res.) ...	G. R. Jebb, Esq., C.E.	8	0 3	651 ⅄	27·90	155
D	Oswestry (The Mount Reservoirs)	G. W. Lacey, Esq.....	5	1 0	698 ⅄	34·48	145
	Market Drayton (Buntingsdale) .	Mrs. Tayleur	8	3 0	276 ⅄	26·89	...
	Ellesmere (Oteley).....	Mr. Pearse	8	1 8	292	28·72	177
D	Adderley Rectory	Rev. A. Corbet	5	0 9	277 T	27·65	158
	STAFFORD.						
	Dennis [Stourbridge]	E.B. Marten, Esq.,C.E.	8	6 6	270 B	26·55	159
D	Netherton (Lodge Farm Res.) ...	G. R. Jebb, Esq., C.E..	5	1 0	445 ⅄	24·38	143
D	Dudley (Shavers End)	H. A. Hill, Esq., C.E .	5	1 0	744 T	23·75	147
D	West Bromwich.....	A.D.Greatorex Esq.,CE	8	4 6	547 T	26·70	146
D	Wombourne (The Bratch)	Baldwin Latham Esq CE	5	0 9	271	27·30	204
	Wednesbury (Ocker Hill).....	E. B. Marten, Esq., C.E.	...	...	...	21·06	137
	Walsall	,, ,, ,,	8	4 0	463 ⅄	29·16	174
D	,, Sewage Farm	R. H. Middleton, Esq CE	8	0 11	376 ⅄	29·04	145
D	,. (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2 8	381 ⅄	23·89	149
	Wolverhampton (Graiseley) ...	R. E. W. Berrington, Esq	5	0 9	506 ⅄	28·08	151
	,, (Town Hall) ...	J.W. Bradley, Esq. C.E.	5	15 6	481 ⅄	26·21	127
	,, (West Park) ...	,, ,, ,,	5	1 0	432 ⅄	27·22	152
D	,, (Tettenhall) ...	R. T. Smith, Esq., C.E.	5	1 0	453 ⅄	26·47	173
D	,, (Wrottesley) ...	Mr. E. Simpson	8	1 0	500	25·88	133
D	Tamworth (Bonehill House).....	Major Chichester	5	1 0	289 T	23·40	148
D	Bloxwich (Sneyd Res.).....	G. R. Jebb, Esq., C.E..	5	1 0	507 ⅄	24·34	139
D	Hammerwich (Cannock Chase Res)	,. ,, ,, ...	5	1 0	475 ⅄	24·41	158
D	Weston Park [Shifnal].....	Rt. Hon. Earl of Bradford	5	1 6	400 T	27·82	166
D	Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1 0	367 ⅄	28·37	133
	Lichfield (Maple Hayes)	A.O. Worthington, Esq.	...	...	380	24·75	...
D	Penkridge (Rodbaston)	H. Ward, Esq.	5	1 0	324 ⅄	29·68	157
D	Hednesford...	H. A. Hill, Esq.. C.E..	5	1 0	750 ⅄	22·76	150
	Shugborough	Rt. Hon Earl of Lichfield	5	1 0	260	30·86	180
D	Burton (Rangemoor).....	Mr. Bennett	5	5 6	424 T	25·87	171
	,, (Ashby Road)	M. L. Nicholas, Esq....	5	1 6	270	25·68	154
D	,, (Shobnall)	Messrs. Bass & Co. ...	5	4 6	156 T	24·12	140
D	,, (Hoar Cross)	F. W. Lycett, Esq.	8	4 0	400 T	26·96	142
	Stafford (West Bank, Doxey) M	Mr. Leslie Wilson	5	0 6	280 T	29·84	...
D	Salt Vicarage.....	Rev. S. W. Jones	8	0 8	273	29·50	159
D	Uttoxeter (Brook House)	Mr. J. J. Gibbons	5	1 0	283 ⅄	29·26	156
D	Market Drayton (Old Springs)...	F. E. Harding, Esq. ...	5	0 8	423 ⅄	27·19	179
D	Maer Hall Gardens	Mr. J. Harris	5	1 6	...	30·05	183
D†	Cheadle (The Heath House).....	J. C. Philips, Esq. ...	5	1 0	647 ⅄	30·94	158
D	Longton (The Meir)	G.D. Harrison, Esq.C.E.	5	1 0	618 ⅄	30·57	163
D	Newcastle (Madeley Vic.).....	Mr. W. Pye	5	1 0	347 ⅄	27·52	135
D	Stoke (Hartshill)	J. Knight, Esq.	5	1 0	485 ⅄	29·44	167
	,, (Stanley Reservoir).....	E. B. Smith, Esq., C.E.	5	3 1	550 T	23·70	143
	Etruria	,, ,, ,, ,,	5	4 2	440	26·21	111
	Golden Hill (Highfield House)...	A. Brothers, Esq.	5	1 6	705 ⅄	27·22	151
	Alstonfield Vicarage	Rev. W. H. Purchas ...	5	1 0	910 T	35·41	127
D	Leek (Wall Grange)	G.D. Harrison, Esq.C.E.	5	1 0	458 ⅄	32·20	159

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
WORCESTER.						
D Blockley (Upton Wold)	E. W. Arkell, Esq. ...	5	0 10	...	25·76	137
Northwick Park	Lady Northwick	8	1 6	410 ⊼	25·89	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.	5	1 3	...	23·91	139
D ,, ,, (The Eades) ...	Major E. Tennant	5	0 9	100 T	25·15	156
D Evesham (Lansdowne)	R. Burlingham, Esq.	5	5 0	108 T	21·13	113
Gt. Malvern (British Camp Res. S.)	H. P. Maybury, Esq. C.E	5	1 7	677	25·67	...
,, ,, (,, ,, ,, N.)	,, ,, ,,	11	0 11	677	24·74	...
D† ,, ,, (Church Street)	,, ,, ,,	5	1 0	361 ⊼	23·43	105
D† ,, ,, (Belle Vue House)	A. Mander, Esq	5	4 0	520	27·06	163
† ,, ,, (Madresfield Rect.)	Rev. G. S. Munn	5	1 4	124 ⊼	24·28	140
D† ,, ,, (,, Court)	Mr. W. Crump	8	2 6	135 T	23·20	128
D Leigh Lodge	Insp.-Gen. M. W. Cowan	5	1 3	110 T	22·76	136
D† Worcester (Diglis Lock)	E. D. Marten, Esq., C.E.	5	1 0	49 ⊼	24·12	153
,, (Belmont Road)	G. B. Wetherall, Esq.	5	1 3	180 T	23·36	162
D ,, (Water Works)	T. Caink, Esq., C.E.	5	0 8	52 ⊼	23·40	151
D† ,, (Bevere Lock)	E. D. Marten, Esq. C.E.	5	1 1	52 ⊼	22·17	145
D ,, (Hawford Lodge)	F. Ames, Esq	5	1 1	70	24·25	134
D† Droitwich (Holt Lock)	E. D. Marten, Esq., C.E.	5	1 1	55 ⊼	23·94	131
D Tenbury (Rochford)	Rev. J. Tomson	5	1 0	317 ⊼	28·46	145
D Redditch (Prospect Hill)	H. Page, Esq., M.D.	5	1 0	425 T	25·27	172
D Bromsgrove (Tardebigge Res.)	F. A. Jones, Esq. C.E.	5	3 0	433 T	23·24	160
D† Stourport (Lincombe Lock)	E. D. Marten, Esq., C.E.	5	1 0	62 ⊼	22·04	145
D Alvechurch (The Uplands)	J. Grubb, Esq.	5	1 0	600 ?	24·81	160
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq. C.E.	5	3 0	430 T	22·89	128
D Bewdley (Winterdyne Gardens)	Mr. W. Wrather	8	2 0	...	27·05	138
D Kidderminster (Prospect Hill)	Mr. J. T. Cowderoy	...	1 0	161 ⊼	21·00	162
Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350 ⊼	27·30	153
,, (Longlands)	,, ,, ,,	...	...	...	28·13	163
D Northfield (Longbridge)	Mrs. Impey	5	0 9	560 T	28·67	155
Lifford Sewage Works	J. H. Webb, Esq., C.E.	5	1 0	427 ⊼	26·07	136
Kings Heath (Cambridge Road)	,, ,, ,,	5	10 0	526 ⊼	22·91	146
,, ,, (Brandwood House)	G. F. Lyndon, Esq.	5	1 0	550 T	26·45	...
Selly Oak Cemetery	Mr. W. Garden	5	1 4	540 T	25·67	148
Moseley (Woodstock Road)	C. J. Fowler, Esq.	5	2 4	440 ⊼	26·06	145
Dudley (Trindle House)	E. B. Marten, Esq., C.E.	8	1 0	575	26·38	174
WARWICK.						
Long Compton (Weston Park)	H. A. Warriner, Esq.	8	3 10	510 T	23·49	130
D Shipston (Compton Wynyates)	J. Sargent, Esq.	5	2 6	480	22·44	169
,, (Honington)	Rev. E. Boddington	5	0 10	215 T	20·56	120
Farnborough	Miss Prater	5	1 0	520 T	23·48	164
D Stratford-on-Avon (Guild Street)	Rev. F. Smith	12	4 0	135 T	22·36	129
D Alcester (Ragley Gardens)	Mr. A. Christie	5	1 0	150 T	23·34	146
D Snitterfield	R. Dixon, Esq.	5	1 0	304 ⊼	21·07	126
D Warwick (Barford Rectory)	Rev. C. Mills	8	0 11	167 ⊼	20·75	156
Southam (Bascote)	H. Campion, Esq.	10	2 6	...	20·24	...
Leamington (The Parade)	J. Barnitt, Esq.	5	4 8	195 ⊼	20·77	145
Henley-in-Arden (Barrells Park)	T. H. G. Newton, Esq.	5	1 0	318 ⊼	23·53	139

DIVISION VI.—WEST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell
			ft. in.	feet.	inches.	
WARWICK—(*con.*)						
Warwick (Hatton Vicarage) ...	Rev. H. Trethewy.....	5	1 0	384 T	25·59	159
Milverton (Latmos)	Rev. E. Healy	5	1 2	191 T	21·58	...
D Leamington (Cubbington)..... ..	Mrs. Robins	6	1 0	280 T	22·40	133
D Kenilworth (The Spring)	W. Evans, Esq.....	5	1 0	312 ⅄	24·58	160
Rugby (Dunchurch Hall)	A. H. Harrison, Esq....	5	2 0	397 T	21·66	145
,, (Temple Observatory) ...	E. Kitchener, Esq. ...	5	1 3	383 T	23·56	171
D Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1 0	266 T	25·71	153
D ,, (Priory Row)	J. Gulson, Esq.	8	1 3	279 ⅄	27·12	157
,, (Stoke)	,, ,, ,, ...	8	1 3	241	26·96	160
,, (Kingswood)	R. B. Caldicott, Esq....	8	1 0	340 T	29·06	...
D ,, (Keresley Grange).....	Miss Rotherham.....	5	0 10	413	26·50	177
D Shirley	B. Boothroyd, Esq. ...	5	1 0	466 T	26·60	163
Sparkbrook (Grantham Road) ...	F. O. Lane, Esq.	5	1 0	410 T	26·31	...
D Birmingham (Sheldon Rectory)..	Mrs. Jones Bateman ...	8	1 0	323	27·88	149
,, (Edgbaston)	A. Cresswell, Esq.....	8	1 0	535	25·12	153
D† ,, (Botanic Gardens)..	Mr. Latham	5	5 2	505 T	24·21	161
D ,, (The Crescent)	J. J. Gilbert, Esq.....	5	21 0	495 ⅄	23·07	134
,, (,, ,,) ...M	,, ,, ,, ...	5	7 0	480 T	24·95	...
D Bedworth Cemetery	Mr. D. Bosworth	5	1 0	385 T	26·55	124
D Witton Reservoir	E. Anty Lees, Esq. ...	5	2 6	247 ⅄	25·30	143
D Whitacre (Birmingham W.W.)..	,, ,, ,,	5	1 3	269 ⅄	24·31	181
Sutton Coldfield (Ladywood) ...	F. Rathbone, Esq.....	5	0 8	500	24·98	...
D ,, ,, (The Park)	Mr. H. Harland.....	5	1 0	371	24·24	157
D Atherstone	BaldwinLathamEsqCE	5	1 0	286 ⅄	24·39	166

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTER.						
Lutterworth (Walcote)	Major Corbet Smith ...	5	0 6	300 T	24·02	...
Gumley Rectory.....	Rev. Canon Overton ...	8	4 6	530 T	25·31	...
Fleckney.....	J. B. Putt, Esq.....	5	1 0	411 T	26·41	...
D†Kibworth Beauchamp	E. V. Phillips, Esq. ...	5	2 6	355 T	25·22	143
D Kibworth Harcourt	C.H.Marriott,Esq.M.D.	5	0 11	773	23·94	142
D Hallaton Hall.....	Mr. Huggard	8	1 3	366	20·44	115
D Wigston Magna (Bushloe House)	H. A. Owston, Esq. ...	5	3 0	303	25·79	158
D Leicester (Town Hall Square) ...	E.G.Mawbey,Esq.,C.E.	5	0 6	211 ⅄	22·07	139
,, (Humberstone Asylum)	J.E.M.Finch,Esq.,M.D	8	1 0	244 ⅄	24·08	174
D†Thornton Reservoir	F. Griffith, Esq., C.E..	8	1 2	371 ⅄	25·84	139
D Thurcaston Rectory	Rev. T. A. Preston ...	5	1 0	253 T	24·40	143
D ,, (Cropston)	F. Griffith, Esq., C.E..	8	1 0	246 ⅄	27·49	162
D Syston.....	S. K. Daniels, Esq. ...	5	1 6	180 T	28·21	145
D Swithland (The Brand)	F. Griffith, Esq., C.E..	8	1 0	172 ⅄	25·25	153
Ratcliffe-on-Wreake College ...	Rev. J. Cremonini.....	5	1 0	288 T	20·16?	135
D Barrow-upon-Soar.....	Mrs. C. Stuart Thomson	5	1 8	...	24·50	121
D Charnwood Forest (Blackbrook Res.)	A.H.Walker, Esq.,C.E.	8	1 0	310	24·91	143
Ashby-de-la-Zouch (Cole Orton)	Rev. Canon Beaumont.	5	1 0	480	25·37	...
Whitwick (Mt. St. Bernard's Abbey)	Rev. C. Hipwood	5	1 3	...	27·10	154

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	LEICESTER—(*con.*)						
D	Loughborough (Nan PantanRes.)	A.H. Walker, Esq., C.E.	8	1 0	269 ⅄	25·55	155
	,, (ForestRd.Cottage)	Adrian Young, Esq. ...	5	0 10	150 T	24·01	170
D	,, (Forest Road)	W. Berridge, Esq.....	5	0 9	147 ⅄	23·15	164
	,, (,, ,,)	,, ,, ,,	8	1 0	147 ⅄	23·09	164
	Burton-on-the-Wolds	Lord Percy St. Maur...	...	...	...	25·25	164
	Prestwold Hall	Hussey Packe, Esq. ...	8	0 9	209 ⅄	25·32	165
D	Waltham-le-Wolds	Mr. Higgens	5	1 0	568	23·69	159
	†Belvoir Castle ..... *old g.*	W. H. Divers, Esq. ...	8	1 0	260 T	20·34	...
D	,, ,, ... *new g.*	,, ,, ,, ...	8	1 0	260 T	22·64	172
	RUTLAND.						
D	Uppingham (Ridlington)	N. W. Wortley, Esq....	5	4 7	527	22·56	145
	Ketton Vicarage	The Meteor. Council...	5	0 10	110	22·97	162
	Tinwell, South View [Stamford]	H. Edwards, Esq.... ..	5	1 1	...	20·89	149
	Burley-on-the-Hill	Mr. W. Temple	8	1 0	506	23·77	131
D	Tolethorpe Hall [Stamford].....	C. O. Eaton, Esq.	8	0 8	161 T	20·42	140
D	Market Overton.....	Miss Grace Wingfield...	8	0 11	475 T	22·93	150
	Stocken Hall	Capt. P. F. Tillard.....	5	1 0	365 T	23·90	...
	LINCOLN.						
	Stamford (Bleak House)	R. M. English, Esq. ...	5	6 0	176 T	20·07	...
	,, (Northfields)	J. Edmonds, Esq.	6	1 3	181 T	23·60	...
D	Market Deeping (Wilsthorpe) ...	J. C. Gill, Esq., C.E....	8	3 10	55 ⅄	18·17	148
	Long Sutton	Mr. J. Tilson	5	4 0	18	19·56	145
	Spalding (Pode Hole)	Mr. W. Grigg	12	1 0	20 ⅄	20·88	...
	Grantham (Stainby)	Rev. W. A. H. Thorold	5	0 9	496	22·44	...
D	,, (Denton Manor)	Sir C. G. E. Welby, Bt.	5	4 0	275 T	23·23	176
D	,, (Little Ponton Rect.).	Rev. P. R. Worsley ...	5	1 0	250 T	25·07	174
	,, (Saltersford).....	H. Preston, Esq.	5	0 6	188 ⅄	21·53	155
D	,, (Guildhall)	F. J. Morris, Esq.	5	13 6	202 ⅄	18·78	132
D	,, (High Street)	Messrs. R. & W. Bird..	5	1 0	...	20·75	133
D	Boston (Black Sluice, Skirbeck).	H. Clarke, Esq., C.E...	8	1 3	19 ⅄	19·54	135
D	,, (Grand Sluice)	C.G.W.Phillips, Esq, CE	8	8 0	18	20·37	157
D	,, ...	W.H.Wheeler, Esq.C.E	5	6 6	25 ⅄	18·73	141
D	Sleaford (Rauceby Hall)	Col. M. Willson, C.B...	5	1 0	125 T	23·95	155
D	Leake (Lade Bank Engines).....	C.G.W.Phillips, Esq, CE	8	1 0	10 ⅄	19·29	120
D	Stubton [Newark].....	G. Nevile, Esq.	5	4 6	94 T	21·09	145
D	Fulbeck	Rev. V. F. Willson ...	5	0 11	180 ⅄	21·18	158
	Leadenham Rectory	Rev. V. E. Skrine.....	5	0 10	150	19·92	128
	Sleaford (Bloxholm)	Mr. W. Lumsden	5	1 6	20	20·90	122
	Temple Bruer.....	The Meteor. Council ...	5	1 0	300?	24·18	141
D	Carrington Grange	Mr. T. J. Ward	5	6 0	15 ⅄	19·71	117
D	Carlton-le-Moorland.....	J. Brocklebank, Esq....	5	1 2	49	20·33	136
	Kirkstead	Mr. R. H. Brett.....	5	1 3	...	20·00	...
	,, (Woodhall Spa)	C.J.Williams, Esq., M.D	5	1 0	37 T	20·73	115
D	Skegness.....	H. V. Tippet, Esq.....	8	1 8	10 L	20·67	136
D	Horncastle (Revesby*)	J. Shaw, Esq.....	5	2 0	135 ⅄	21·42	111

* Formerly called Miningsby.

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground.	Height above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet	inches.	
LINCOLN—(*con.*)						
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 ⅄	24·02	133
D ,,	Dr. J. W. Walker	5	1 0	160 T	25·21	185
D ,, (Boston Road)	Mr. J. J. Rainey	5	1 0	130 T	22·39	153
D ,, (Hagworthingham)	Mr. R. Wright	5	1 1	252 ⅄	28·20	156
D ,, (Dalby Grange)	J. H. Wright, Esq.	5	1 6	250	24·56	176
D Horncastle (Bucknall)	W. Carter, Esq.	5	1 0	50	20·78	130
Lincoln (Branston)	A.S.Leslie Melville, Esq	5	1 3	122 ⅄	21·87	144
D† ,, (Boultham)	Mr. F. Terrill	5	1 0	19 ⅄	22·48	147
D† ,, (St. Botolphs)	A. M. Swift, Esq.	5	1 2	25 ⅄	21·14	154
,, (St. Catherine's)	J. H. Teague, Esq.	5	5 0	33 T	21·77	...
D ,, (Doddington)	Rev. R. E. Cole	5	1 2	92 ⅄	21·06	153
,, (Station)	Gt. Central R. Co.*	9	3 6	26	19·92	140
D ,, (The Close)	C. J. Bromhead, Esq.	8	1 0	185	20·25	190
,, (D'Isney Place)	A.H.Leslie Melville Esq	4	1 0	215 L	20·83	162
D ,, (Brayford Wharf)	Mr. J. W. Horton	5	5 8	28 ⅄	19·86	167
,, (Skellingthorpe Hall)	A. H. B. Coupland, Esq.	5	1 0	...	19·95	133
D Horncastle (Hemingby)	Rev. E. S. Bengough	5	1 0	158	24·09	159
Alford (The Burial Ground)	Mr. E. Hodgson	5	1 0	29 ⅄	20·66	...
D Farforth (Maidenwell House)	Miss H. E. Browne	5	1 0	380 T	26·51	171
Gate Burton	Gt. Central R. Co.	9	3 6	96	21·42	161
D Fillingham Manor	Mrs. G. E. Sandars	5	1 11	110 T	22·50	122
D† Louth (Gospelgate)	T. W. Wallis, Esq.	5	6 0	111 ⅄	25·74	160
† ,, (Westgate)	Dr. F. Fawssett	5	0 9	120 ⅄	25·23	158
D Market Rasen	Mr. W. B. Jevons	5	0 8	84	22·28	130
,, ,,	Gt. Central R. Co.	9	3 6	100	20·04	129
,, ,, (Tealby)	The Meteor. Council	5	4 0	251	24·12	150
D Yarborough (The Rectory)	Rev. S. Bateman	5	0 9	42 T	21·80	141
Gainsborough	Gt. Central R. Co.	9	...	76	18·85	141
Stockwith	,, ,, ,,	9	3 6	21	20·15	179
D North Thoresby Rectory	Rev. H. Garrett	5	1 0	46 ⅄	21·45	174
Brigg	Gt. Central R. Co.	9	3 6	16	22·25	157
D ,,	A. Atkinson, Esq., C.E.	8	1 2	11 ⅄	25·62	156
D Grimsby (Waltham)	Rev. W. Tuckwell	5	1 0	50	21·26	150
,,	Gt. Central R. Co.	9	15 0	42	18·37	153
Barnetby	,, ,, ,,	9	3 6	51	21·91	131
D N Level Engine [Thorne Donc'st'r]	Mr. Turner	5	2 3	...	19·99	146
Crowle (Keadby)	Gt. Central R. Co.	9	...	17	19·28	144
D Burton on Stather Vicarage	Rev F. A. Jarvis	5	0 6	212 T	23·27	161
D Horkstow	E. J. Turton, Esq.	5	0 10	75	22·55	152
D West Halton	Rev. R. D. Pierpoint	5	1 6	0	23·38	191
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1 0	18 ⅄	22·36	139
New Holland	Gt. Central R. Co.	9	3 6	18	17·47	136
NOTTS.						
D Kingston Hall [Loughborough]	Mr. W. English	5	0 8	...	24·23	151
D Plumtree (Normanton-on-Wolds)	T. A. Hill, Esq.	8	1 0	170 T	22·01	154
Cropwell Bishop (Cropwell Grove)	H. Smith, jun., Esq.	5	1 1	160 T	21·34	...

* Kept for the Canals Department of the Great Central Railway Company. Returns supplied by G. Taylor, Esq.

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell
	NOTTS—(*con.*)							
	Bramcote	H. H. Enfield, Esq.	5	3	6	292 T	26·40	182
	Bingham (Whatton Manor)	M. H. Hall, Esq.	5	3	0	104 T	22·69	153
D	Nottingham (Beeston Fields)	G. Fellows, Esq.	5	0	9	206 ⅄	25·17	170
D	,, (The Castle)	A. Brown, Esq., C.E.	8	1	2	192 ⅄	22·64	147
	,, (,, ,,)	,, ,, ,,	8	76	0	268 ⅄	19·69	139
D	,, (CarisbrookHo.,ThePark)	W. Bradshaw, Esq.	5	2	0	247	23·86	158
	,, (Ropewalk ,,)	A. Brown, Esq., C.E.	..	1	3	230	22·37	...
	Radcliffe-on-Trent	T. Yates, Esq.	5	1	0	...	22·64	122
	,, ,, ,, (Chestnut Ho.)	Mr. J. Green	8	2	0	...	21·82	...
D	Nttnghm (StokeBardolphSewFm)	Mr. A. A. Avis	8	10	0	83	20·29	139
D	,, (Strelley)	T. L. K. Edge, Esq.	8	1	0	396 ⅄	24·99	162
D	,, (,, Hall)	,, ,, ,,	5	1	0	379 ⅄	23·69	158
	,, (,, ,,)....M	,, ,, ,,	5	1	0	379 ⅄	23·92	...
D	,, (Mapperley Hill)	E. Powell, Esq.	8	0	10	400 T	23·21	144
D	,, (Basford)	S. Moore, Esq.	8	0	10	169 ⅄	22·53	146
	Bulwell (Springfield)	G. W. Walker, Esq.	5	0	9	166 ⅄	25·66	...
D	,, (Bestwood)	S. Moore, Esq.	8	1	5	317 ⅄	22·09	145
D	Eastwood Colliery	Mr. E. Lindley	5	1	0	245 T	26·42	153
D	Hucknall Torkard (Forge Mills)	J. D. Walker, Esq.	5	1	0	200 ?	22·99	168
D†	Gonalston Rectory	Rev. F. H. Paley	5	1	0	70	23·22	165
	Southwell (Oxton Hall)	Captain Sherbrook	5	0	9	182	23·28	...
D	Papplewick (Water Works)	S. Moore, Esq.	8	0	10	317 ⅄	25·55	158
D	,, Hall	F. A. Smith, Esq.	5	0	7	321 T	28·09	150
	Annesley (Selston W.W.)	MessrsG.&F.W.Hodson	5	1	0	475 ⅄	28·17	166
	Southwell (Westhorpe Hall)	Genl. Warrand	5	1	0	147	23·74	...
D†	Farnsfield	Dr. Wills	5	1	0	210 T	23·95	173
	Sutton-in-Ashfield W.W.	MessrsG.&F.W.Hodson	5	1	0	462 ⅄	25·58	118
	Mansfield (W.W. Rainworth)	,, ,, ,,	5	1	0	360 ⅄	23·83	127
	,,	Mr. P. J. Shacklock	5	1	0	350	27·71	200
	South Collingham	E. Turton, Esq.	5	1	0	...	21·25	...
D	South Scarle	Rev. E. C. Shawfield	5	1	4	52	18·72	135
D	Ollerton (Thoresby Gardens)	Mr. A. Henderson	8	0	9	125	22·18	116
	Worksop	Gt. Central R. Co.	9	3	6	127	22·90	151
D	,, (Osberton Gardens)	Mr. Allsop	5	4	0	70	23·91	153
	Retford	Gt. Central R. Co.	9	3	6	52	18·74	164
D	,, (Morton Hall)	W. H. Mason, Esq.	5	1	0	140	23·97	154
	,, (Babworth Hall)	Col. Denison	5	0	6	92 ⅄	24·70	...
D	Worksop (Hodsock Priory)	H. Mellish, Esq.	8	1	0	56 ⅄	22·27	167
	,, (,, ,,) .....M	,, ,,	5	1	0	56 ⅄	21·56	...
	The Gardens [Bawtry Hall]	L. T. Baines, Esq.	5	1	0	31 T	20·41	...
D	Hesley Hall [Tickhill]	B. I. Whitaker, Esq.	8	0	11	61 T	20·17	157
	DERBY.							
	Stanton House [Burton]	J. L. P. Barber, Esq.	5	1	0	210	26·52	186
D	Melbourne Vicarage	Rev. Canon Singleton	5	2	0	...	27·49	151
D	,, (The Hollow)	Mr. W. Garratt	5	1	0	182 ⅄	23·87	141
D	Chellaston	H. Chambers, Esq.	5	1	0	170 T	24·84	167
	Willington (S.&A.W.W. Milton)	MessrsG.&F.W.Hodson	5	1	0	134 ⅄	25·82	168

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
DERBY—(*con.*)						
Findern (The Longlands)	Rev. B. W. Spilsbury..	5	0 9	186 ⅄	21·22	...
D Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	190 ⅄	22·90	123
Mickleover (County Asylum)	R. Legge, Esq., M.D...	5	0 9	300 T	24·52	137
D ,, Manor	Mr. J. Campbell	5	2 0	280	25·06	121
D Derby (Wild Street)	Messrs. J. Davis & Son	5	1 0	174	28·22	162
D ,, (Midland Railway)	W. Langdon, Esq.	5	1 5	156 ⅄	25·56	163
D ,, (Royal Infirmary)	W. G. Carnt, Esq.	5	0 9	195	26·91	180
D ,, (Arboretum)	J. Ward, Esq., C.E. ...	8	1 0	196 ⅄	26·16	157
D ,, (Duffield Road)	Dr. Copestake	5	8 0	192 ⅄	25·79	139
D Breadsall Lodge	Miss Thompson	5	1 3	280 T	24·67	180
D ,, Priory	A. Victor Haslam, Esq.	5	1 6	380 ⅄	26·75	152
,, ,, M	,, ,, ,,	5	1 6	380 ⅄	26·16	...
D Duffield (Castle Hill House)	Messrs. J. Davis & Son	...	...	...	25·93	172
Hazelwood (Chevin)	Sir J. G. N. Alleyne, Bart.	5	4 0	515 ⅄	24·74	149
D Ashbourne Water Works	Mr. J. W. Twigg	5	1 0	582 ⅄	31·50	172
D Belper (Quarry Bank)	J. Hunter, Esq., C.E....	5	0 8	294	29·77	160
D ,, (Highfield)	M. Hunter, Esq.	8	0 8	312 T	29·85	161
D Codnor (Cross Hill)	A. F. Pine, Esq.	5	0 10	372 ⅄	27·07	140
D Alderwasley *old g.*	A. F. Hurt, Esq.	5	5 5	541 ⅄	32·42	145
D ,, *new g.*	,, ,, ,, ...	5	1 0	537 ⅄	33·25	145
†Matlock Bath	Mrs. Chadwick	5	1 6	500 T	29·81	...
,, ,, *new g.*	,, ,,	5	1 5	500	32·09	...
,, Dale (Tor House)	J. H. Hay, Esq.	5	1 6	600	29·43	...
D† ,, (The Gables)	R. Wildgoose, Esq. ...	5	1 0	459 T	32·64	177
D Darley Dale (Whitworth Inst.)..	Whitworth Inst. Trustees	5	1 2	360 ⅄	30·28	138
D† ,, Hall	A. Clay, Esq.	5	1 8	400 T	30·55	193
D Stretton (Lindway Res.)	Mr. Peers	5	4 3	447 ⅄	22·87	141
Hardwick Hall	Mr. Wilson	8	2 6	594 T	30·47	172
D Grassmoor Colliery	Mr. J. Norman	5	19 10	370 ⅄	18·73	155
D Chatsworth Gardens	W. Chester, Esq.	8	5 5	442 T	32·31	179
†Chesterfield (Gas Works)	Chesterfield Corporation	5	1 0	279	26·11	140
,,	Gt. Central R. Co.	9	3 6	251	26·81	166
† ,, (Linacre Reservoir) *old g.*	Chesterfield Corporation	8	1 0	490	29·89	157
,, (,, ,,) *new g.*	,, ,,	5	1 0	490	29·05	157
D ,, (Tapton Grove)	Mr. Bloxham	5	3 3	400	25·20	146
Buxton (Devonshire Hospital)...	The Royal Meteor. Soc.	5	1 0	988	45·38	179
Tideswell (Sterndale Ho., Litton)	W. F. Jackson, Esq. C.E.	5	4 0	999 ⅄	38·74	160
†Comb's Moss	Gt. Central R. Co.	9	3 6	1669 T	34·42	...
† ,, Reservoir	,, ,, ,,	9	3 6	710 T	35·43	202
†Chapel-en-le-Frith	,, ,, ,,	9	3 6	965 T	36·74	191
D Totley Hall	W. A. Milner, Esq. ...	5	1 0	700	35·68	140
†Killamarsh (Norwood)	Gt. Central R. Co.	9	3 6	238 T	26·91	166
D Norton [Sheffield]	Col. Creswick	...	0 8	700 T	30·86	177
Edale (Upper Booth)	late G. J. Symons, F.R.S.	5	1 0	910 T	42·42	...
Ashopton (Win Hill)	,, ,, ,, ,,	5	1 0	1155 T	39·09	...
,, (Coxbridge Farm) ...	,, ,, ,, ,,	5	1 0	620 T	38·49	...
Derwent (Rowlee Pasture)	,, ,, ,, ,,	5	1 0	1540 T	47·74	...
Kinder Scout (Ashop Head)	,, ,, ,, ,,	5	1 0	1650 T	44·28	...

DIVISION VII.—NORTH MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	DERBY—(*con.*)						
	Ernecroft [Compstall]	G. H. Hill, Esq., C.E.	5	1 6	310 ⇈	30·10	...
	Ronksley Moor (Back Dyke)	late G. J. Symons, F.R.S.	5	1 0	1540 ↑	55·32	...
D	Glossop Hall	Lord Howard of Glossop	8	1 5	533 ↑	38·28	169
	Woodhead (Bleaklow Stones)	late G. J. Symons, F.R.S.	5	1 0	2060 ↑	56·62	...
	,, (Featherbed Moss)	,, ,, ,, ,,	5	1 0	1670 ↑	50·68	...
	,, Station	Gt. Central R. Co.	9	3 6	878 ↑	41·92	199
	DIVISION VIII.—NORTH WESTERN COUNTIES.						
	CHESHIRE.						
D	Baddiley (Nantwich W. W.)	Baldwin Latham Esq C.E	5	1 0	231	23·91	133
D	Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1 6	190	24·22	151
D	,, (Reaseheath Hall)	,, ,, ,,	8	1 0	130	25·60	177
D	Sandbach (Malkins Bank)	Messrs Brunner Mond & Co	5	3 8	244 ⇈	21·06	156
	Aldford (Woodhouse)	W. H. Phillips, Esq.	5	1 1	43 ⇈	24·53	151
D	Eaton Hall Gardens	Mr. N. F. Barnes	5	3 0	64 ⇈	26·78	155
	Eccleston	E. Wells, Esq.	5	1 1	94 ⇈	26·68	161
	,, Rectory	Rev. A. G. Robins	5	6 0	83 ⇈	25·55	149
D	Congleton (Buglawton Vic.)	Rev. W. Besant	8	5 0	347 ↑	26·36	156
	Bosley Reservoir	Gt. Central R. Co.	9	3 6	590 ↑	26·82	159
	,, Minns	,, ,, ,,	9	3 6	1210 ↑	30·04	160
	Macclesfield (Wincle)	E. B. Smith, Esq., C.E.	5	3 0	500	32·76	137
D	Chester (Christleton Hall)	Mr. T. Weaver	5	1 2	142 ⇈	26·14	166
	,, (Water Works)	A. Bell, Esq.	5	0 10	85 ⇈	27·56	156
	,, (Northgate Station)	Gt. Central R. Co.	9	3 6	84 ↑	27·23	140
D	,, (Parkgate Road)	Rev. J. C. Mitchell	5	1 0	60 ⇈	28·20	170
D†	,, (The Nurseries)	Messrs. Dicksons	5	1 0	62 ⇈	25·93	135
D	,, (Hoole Lodge)	Mrs. Hamersley	5	1 0	108 ⇈	27·31	190
D	,, (Upton Lawn)	S. May, Esq.	5	2 0	...	22·96	136
D	Middlewich	Messrs Brunner Mond & Co	5	3 10	138 ⇈	23·96	154
	,, (Bostock Hall)	Col. France Hayhurst	5	2 0	157 ⇈	26·24	133
D	Macclesfield (The Park)	Mr. J. Dale	5	1 0	501 ↑	31·70	177
	,,	Gt. Central R. Co.	9	3 6	539	34·89	189
D	Chelford (Astle Hall)	G. Dixon, Esq.	5	1 0	250 ↑	26·54	147
	,, (,, ,,) M	,, ,, ,,	8	1 0	250 ↑	26·14	...
	Northwich	Gt. Central R. Co.	9	3 6	76 ↑	24·23	146
D	,, (Highfield)	J. A. Saner. Esq., C.E.	8	3 4	118 ⇈	28·35	177
D	,, (,,) *Snowdon*	,, ,, ,,	8	1 0	115 ⇈	28·94	177
D	,, (Winnington)	Messrs Brunner Mond & Co	5	3 8	80 ⇈	27·74	176
D	Macclesfield (Swanscoe Park)	T. C. Horsfall, Esq.	5	1 0	676 ⇈	32·80	184
D*	Neston (Hinderton)	Reginald Bushell, Esq.	5	1 0	215 ⇈	27·13	162
*	,, (,,) M	,, ,, ,,	8	1 0	215 ⇈	27·48	...
*	,, (,, Lodge) M	,, ,, ,,	5	1 0	145 ⇈	27·34	...
	Bollington (Spond's Hill)	Gt. Central R. Co.	9	3 6	1279 ↑	27·08	...
D	Hooton Grange	W. H. Jones, Esq.	5	1 0	110 ⇈	28·80	153
D	Wilmslow (Southside)	G. Pearson, Esq.	8	1 0	255 ↑	28·30	149
D	,, (Parksyde)	E. Pearson, Esq.	8	1 0	253 ⇈	26·25	171

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
CHESHIRE—(*con.*)							
Wilmslow (Poplar House)	J. Holden, Esq.	5	1	0	237 ⅄	25·08	150
†Whaley	Gt. Central R. Co.	9	3	6	602 T	36·24	188
Disley (Lyme Park).....No. 1	T. Molyneux, Esq.	9	3	8	720 ⅄	37·73	154
D ,, (,, ,,).....No. 2	,, ,, ,,	12	2	9	674 ⅄	29·93	154
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2	4	18	32·82	152
Thurstaston (Dawpool)	the late T.H. Ismay, Esq.	...	...		...	22·90	...
D West Kirby (Caldy Manor)	Mr. W. Neish	5	1	0	129 L	29·84	148
D ,, ,, (Greenfield)	H. Bell, Esq	5	1	0	75 T	26·79	172
Bowdon (The Firs)	R. Swindells, Esq., C.E.	5	1	0	215 ⅄	27·91	...
D ,, (Erlesdene)	E. J. Sidebotham, Esq.	5	1	0	211 ⅄	24·42	170
,, (,,).....M	,, ,, ,,	5	1	0	211 ⅄	27·33	...
D Thelwall (Highfields)	the late T G Rylands Esq	5	1	0	118 ⅄	25·52	157
,, (,,).....M	,, ,, ,,	5	1	0	118 ⅄	25·72	...
D ,, (Millington House)	L. W. Reynolds, Esq.	5	1	0	85 ⅄	27·38	160
D Altrincham (Norman's Place)	A. Griffiths, Esq.	5	7	0	150 T	30·26	154
,, (Barrington House)	C. E. Newton, Esq, C.E.	8	3	0	105	28·60	...
D Cheadle (Harthill)	R. A. Grundy, Esq.	5	1	0	142 T	28·31	162
Hoylake (The Chase, East)	J. F. Leigh Clare, Esq.	5	1	0	29 T	24·86	163
,, (District Council Office)	T. Foster, Esq.	5	1	0	33 ⅄	28·07	184
†Birkenhead (Bidston Obs.)	W. E. Plummer, Esq.	8	1	0	189 ⅄	27·81	186
D Northenden (Wythenshawe)	T. E. Tatton, Esq.	5	1	0	114 T	26·00	164
Marple Top Lock	Gt. Central R. Co.	9	3	6	543 T	29·66	166
,, Aqueduct	,, ,, ,,	9	3	6	321 T	29·37	172
New Brighton (Rutland House)	W. Bell, Esq	5	1	0	130 B	27·01	163
Godley Reservoir	G. H. Hill, Esq., C.E.	12	2	0	500	28·91	...
Newton	Gt. Central R. Co.	9	3	6	396 T	29·90	162
Mottram Station	,, ,, ,,	9	3	6	452 T	27·23	155
,, (Hill End)	,, ,, ,,	9	3	6	680 T	32·77	172
D Broadbottom (Harewood Lodge)	Col. Sidebottom, M.P.	5	1	0	440	33·22	163
D Hadfield (Millbrook)	Mr. S. H. Doxon	8	3	10	442 T	35·55	180
,, (,,)	,, ,, ,,	12	4	0	442 T	36·22	180
Arnfield Reservoir	G. H. Hill, Esq., C.E.	12	2	6	550	37·44	...
†Rhodes Wood Reservoir	,, ,, ,,	12	1	0	520	40·99	...
†Torrside Reservoir	,, ,, ,,	12	1	6	680	42·80	...
Staleybridge (Swineshaw)	,, ,, ,,	8	3	0	884 ⅄	45·43	...
†Woodhead Reservoir	,, ,, ,,	12	0	10	660	42·23	...
LANCASHIRE.							
D Garston (Grassendale Park)	Miss E. C. Abraham	5	1	0	35 T	27·78	171
D Aigburth (Kelton)	J. Sing, Esq.	5	1	0	150 T	28·97	185
D ,, (Holmfield)	Miss Maxwell	5	1	0	100 T	28·22	180
D Gateacre (The Nook)	P. C. Hall, Esq.	5	1	0	90 T	27·07	177
D Warrington (Howley)	T. Longdin, Esq.	10	0	10	19 ⅄	29·08	167
,, (Central Station)	Gt. Central R. Co.	9	3	6	59 ⅄	26·49	148
D ,, (Training College)	Miss F. G. Timewell	8	0	9	34 T	26·95	151
,, (Fever Hospital)	J. H. Gornall, Esq., M.D.	5	1	0	...	27·69	153
Liverpool (St. John's Gardens)	J. A. Brodie, Esq., C.E.	9	2	3	48 ⅄	26·91	169
,, (,, ,,)	,, ,, ,,	5	0	9	47 ⅄	27·11	171

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft	in.	feet.	inches.	
	LANCASHIRE—(*con.*)							
	Liverpool (Smithdown Road) ...	J.A. Brodie, Esq., C.E.	5	0	9	135 ⅄	26·77	158
	,, (Rathbone Road)	,, ,, ,,	10	1	0	199 ⅄	30·26	178
	,, (Huyton Vicarage) ...	Mrs. E. M. Sanderson..	5	0	11	116 ⅄	31·50	179
	,, (Breeze Lane)	J. A. Brodie, Esq., C.E.	5	0	9	135 ⅄	29·78	170
	,, (Grove Park).....	J. R. Darsie, Esq.	5	6	0	160	29·39	...
	,, (Huskisson Station) ...	Gt. Central R. Co.....	9	3	6	40 ⅄	29·31	173
D	Heaton Mersey [Stockport]	W. B. Leigh, Esq.....	5	3	11	218 ⅄	26·93	177
D	Heaton Moor [Stockport] *new g.*	Dr. F. W. Jordan	5	1	0	235	28·93	189
D	Manchester (Withington) No. 2	J. King, jun., Esq. ...	5	1	3	110 T	28·55	170
D	,, (,,) No. 3	,, ,, ,, ...	8	1	6	110 T	27·95	170
D	,, (Stretford)	H. Royle, Esq., C.E....	5	1	0	86 ⅄	29·29	175
	,, (Urmston Sewage Works)	Mr. Ogden	8	2	6	72 ⅄	28·35	161
D	,, (Lady Barn, Fallowfield)	Miss C. Herford.....	5	1	0	122 T	25·53	179
D	St. Helens (Eccleston Hill)	J.J.Lackland, Esq., C.E.	12	2	9	268	30·09	144
	Denton Reservoir	G. H. Hill, Esq., C.E..	12	2	0	324 T	28·76	...
	Gorton.....	,, ,, ,,	12	2	0	263 T	28·69	...
†	Manchester (Piccadilly)	Gt. Central R. Co.....	9	40	0	194 T	26·65	165
	,, (Fairfield)	,, ,, ,, ...	9	6	0	312 T	30·14	182
D	,, (Oldham Road)	Dr. Niven	5	1	0	191 ⅄	30·84	187
D	,, (Alexandra Park) ...	the late J. Casartelli, Esq	8	3	0	120 T	28·13	169
	,, (Whitworth Park)...	W. Bates Ramsden, Esq.	8	1	6	126	27·51	...
	Eccles (Worsley New Hall)	Mr. W. B. Upjohn ...	8	8	0	100 T	27·23	148
D	,, (Worsley Old Hall)	W. Bourke, Esq., C.E.	5	1	0	185 ⅄	31·05	161
	Blundellsands (Park Corner) ...	T. M. Reade, Esq. C.E.	5	1	0	36 ⅄	26·05	...
D	Manchester (Newton Heath).....	J. Warren, Esq.....	5	1	0	275 ⅄	33·83	177
D	,, (Cheetham Hill).....	W B Worthington Esq CE	5	1	0	264 ⅄	32·37	185
	Ashton (Waterhouses)	Gt. Central R. Co.....	9	3	6	345 T	34·38	167
	Prestwich Asylum.....	The Meteor. Council ...	8	1	0	295	33·49	189
	,, Reservoir	G. H. Hill, Esq., C.E...	12	2	0	356 T	30·43	...
†	Oldham (Gas Works)	,, ,, ,, ...	5	4	0	600 T	34·03	...
	,, (Honeywell Lane)	Gt. Central R. Co.....	8	...		553	36·00	188
	,, (Brushes Clough) *old g.*	C. J. Batley, Esq., C.E.	5	4	0	930 T	41·45	168
	,, (,, ,,) *new g.*	,, ,, ,,	5	5	0	955 T	42·02	168
D	Ormskirk (Aughton Springs) ...	C. E. Maples, Esq. ...	5	1	0	150	28·66	173
D	Wigan Waterworks	W. Bolton, Esq.....	8	1	6	225 T	34·06	181
D	Barton Moss (Downholland).....	J. Baxendell, Esq.....	5	0	9	14	26·58	179
D	Bolton (The Park)	W. W. Midgley, Esq..	5	1	0	390 T	40·48	194
	,, (Heaton) ..... *new g.*	R H Swindlehurst Esq CE	5	1	0	500	40·68	211
D	,, (Ash Lawn, Heaton). ...	F. Taylor, Esq.	5	1	0	406	41·70	191
	,, (Moss Bank)	Col. R. H. Ainsworth...	8	1	6	530 ⅄	45·66	182
	,, (Smithills Hall)	,, ,,	8	1	2	510 T	43·47	161
†	Milnrow (Piethorne, Kitcliffe)...	C. J. Batley, Esq., C.E.	5	4	6	767	38·18	166
D	,, (,, Coldgreave)	,, ,, ,,	5	4	2	894 T	40·29	168
†	Rochdale (Deeplish Hill)	J. H. Lancashire, Esq.	5	1	0	475 T	39·28	187
D†	,, (Park Observatory) ...	Dr. Henry	8	0	6	472	41·43	193
D†	,, (Fieldhead)	S. S. Platt, Esq., C.E..	8	12	0	484 ⅄	39·69	172
†	Bury (Gin Hall) ..... *old g.*	R. B. Rigby, Esq.....	8	1	0	475	40·70	158
†	,, (,, ,,) ..... *No. 2*	,, ,, ,,	8	1	0	475	40·79	158
D	Ormskirk (Rufford)	T. Hobkirk, Esq.	5	0	8	39 ⅄	31·48	160

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	LANCASHIRE—(*con.*)						
	Bolton (Belmont) ..... *new g.*	R H Swindlehurst Esq C E	5	1 0	800	52·68	201
D	Southport (Birkdale).....	J. Baxendell, Esq.....	5	1 0	27 ⊼	28·91	184
D	Rochdale (Nayden Dean Filters).	J. Diggle, Esq., C.E....	5	1 8	761 ⊼	41·62	163
†	,, (,, ,,) *old g.*...	,, ,, ,, ...	5	1 7	948 ⊼	33·65	...
†	,, (,, ,,) *new g.*...	,, ,, ,, ...	5	1 3	948 ⊼	39·26	163
D†	,, (Spring Mill Whitworth)	W. Tomlinson, Esq....	8	1 7	720	46·05	172
D†	,, (Cowm, ,,)	,, ,, ,, ...	8	1 7	760	46·47	168
D†	,, (Facit).....	T. S. Smithson, Esq....	5	0 6	855 ⊺	47·37	186
	Southport (Hesketh Park).....M	J. Baxendell, Esq. ...	5	1 0	38 ⊼	28·32	...
D	,, (,, ,,) *M.O.g.*	,, ,, ,, ...	8	1 0	38 ⊼	28·35	173
	,, (Lord Street Station).	Gt. Central R. Co.	9	3 6	21 ⊼	25·62	172
D	,, (Park Crescent)	J. Watkins, Esq.	5	1 0	30 ⊺	29·99	183
	Entwistle .....*new g.*	R H Swindlehurst Esq C E	5	1 0	700	49·17	169
	Blackstone Edge (Hollingworth)	Rochdale Canal Compy‡	10	1 5	650	36·70	...
†	,, ,, (Windy Bank)	,, ,, ,, ...	10	1 6	600	36·10	...
†	,, ,, ...	,, ,, ,, ...	10	1 9	1225	36·70	...
†	,, ,, (Canal Summit)	,, ,, ,, ...	10	1 10	700	32·90	...
†	,, ,, (Chelbourn) ...	,, ,, ,, ...	10	1 3	800	36·70	...
	,, ,, (Lenches)	,, ,, ,, ...	10	1 10	800	43·00	...
†	,, ,, (Calf Lee).....	,, ,, ,, ...	10	1 6	960	38·40	...
	Chorley (Crooke Hall)	Carlton Cross, Esq. ...	5	2 6	265 ⊺	37·52	162
	†Todmorden W W. (Ramsden Moor)	J. Radcliffe, Esq.	5	1 0	1326 ⊼	52·09	...
D†	,, ,, (,, Res.)	,, ,, ,, ...	8	1 0	980 ⊼	52·16	218
	Haslingden (Holden Wood)	R. B. Rigby, Esq.....	8	1 0	670	54·87	176
	,, (Calf Hey).....	,, ,, ,, ...	8	1 0	800	52·69	178
D	,, ...	Dr. Harrison	5	1 9	800 ⊺	49·30	159
	,, (Springfield Lodge)..	J. Stott, Esq.....	5	...	780	47·62	...
D	,, Vicarage	Rev. A. Spencer.....	8	1 6	800 ⊺	47·34	190
	,, (Mitchells House Res.)	C. Harrison, Esq.	5	1 6	990	45·20	153
D	Over Darwen (Sunnyhurst Hey.)	R. W. S. Saville, Esq..	8	1 8	915 ⊺	35·63	175
D	,, ,, (Earnsdale Res.)....	,, ,, ,,	8	1 8	705 ⊺	37·60	175
D	,, ,, (St. James's Vic.) .	Rev. W. H. Blamire...	5	1 0	564 ⊼	44·53	174
D	,, ,, (Gillibrand Obs.)...	Mr. G. Mainland	8	1 0	711 ⊼	50·54	182
	,, ,, (Hoddlesden) No.1	W. Stubbs, Esq., C.E..	8	4 0	680	63·50?	165
	,, ,, (,,) No.2	,, ,, ,, ...	8	1 0	675	56·26	181
	,, ,, (Daisy Green) No.1	,, ,, ,, ...	8	1 0	969	44·43	159
	,, ,, (,, ,,) No.2	,, ,, ,, ...	8	1 0	969	43·82	172
	,, ,, (Pickup Bank) No.1	,, ,, ,, ...	8	1 0	720	46·67	161
	,, ,, (,, ,,) No.2	,, ,, ,, ...	8	1 0	720	45·87	162
	Rawtenstall Cemetery	A. W. Lawson, Esq., C.E.	8	1 0	572	49·14	178
D	Todmorden (Scaitcliffe).....	W. Ormerod, Esq.	8	1 0	468 ⊺	51·95	188
	Blackburn (Guide Reservoir) ...	W. Stubbs, Esq., C.E..	8	1 0	650	37·33	150
	,, (Witton)	,, ,, ,,	8	2 6	315 ⊼	40·85	176
	,, (Store Yard)	,, ,, ,,	8	30 0	373 ⊼	33·67	138
	,, (Waterworks Office)..	,, ,, ,,	...	60 0	436 ⊼	35·61	163
	,, (Corporation Park) ...	,, ,, ,,	...	...	550 ⊼	40·78	211
	,, (Pumping Station) ...	,, ,, ,,	8	6 0	600 ⊼	42·11	175
	Accrington (Milnshaw Park) ...	Mr. R. Carr	5	1 6	464 ⊼	38·48	...

‡ Returns supplied by C. R. Dykes, Esq.

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground ft.	in.	Rain Gauge. Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which .01 or more fell.
LANCASHIRE—(*con.*)							
†Rawtenstall (Cloughbottom Res.)	R. B. Rigby, Esq.	8	1	0	1025	44·82	167
† ,, (Clough Bridge Res.)	,, ,, ,,	8	1	0	900 ⇈	43·72	195
D Preston (Corporation Offices)	T. Cookson, Esq.	8	18	0	148	31·99	146
Burnley Waterworks †Causeway Side	W. Williamson, Esq.	8	2	0	1116	39·19	...
Burnley Waterworks †Sheddin	,, ,, ,,	8	2	0	960	39·64	...
Burnley Waterworks †Cant Clough, S. Side	,, ,, ,,	8	2	0	900	39·48	191
Burnley Waterworks † ,, ,, N. Side	,, ,, ,,	8	2	0	900	36·20	191
Burnley Waterworks †Rams Clough Head	,, ,, ,,	8	2	0	1260	38·47	...
Rishton Reservoir	Leeds & L'pool Canal Co.	...	...		467	36·08	...
Huncoat (Burnley Road Res.)	C. Harrison, Esq.	9	1	6	620 ⇈	41·36	166
†Burnley (Yorkshire Street)	W. Williamson, Esq.	8	30	0	420 ⇈	38·96	185
† ,, (Swinden, Upper)	,, ,, ,,	8	12	0	820 ⇈	41·63	197
† ,, (,, Lower)	,, ,, ,,	8	2	0	745 ⇈	41·81	197
† ,, (Extwistle Moor)	,, ,, ,,	8	2	0	1310 ↑	42·83	...
D ,, (Gawthorpe Hall)	A. Ford, Esq.	8	1	3	316 ↑	40·25	165
D Preston (Haighton)	J. J. Myres, Esq., C.E.	5	1	2	255 ⇈	37·07	169
Alston	T. Cookson, Esq.	8	1	2	320 ⇈	40·92	...
Kirkham (Weeton)	C. Arthur, Esq.	10	1	0	95 ↑	33·23	...
D Barton (Anderton Fold)	W. H. Mason, Esq.	5	0	6	90 ↑	37·17	179
Blackpool Hospital	Dr. Anderson	5	1	0	59 ⇈	33·82	182
Nelson (Coldwell Reservoir)	C. E. Newton, Esq., C.E.	8	2	0	950 ⇈	27·54	...
D Worthdale (Watersheddles)	W H Hopkinson, Esq. C E	5	1	0	1115 ↑	43·68	145
D Eccleston (Elswick Lodge) *old g.*	S. King, Esq.	5	1	4	52 ↑	34·01	177
,, (,, ,,) Field	,, ,, ,,	5	1	0	52 ↑	37·34	...
,, (,, ,,) ,,	,, ,, ,,	5	6	0	56 ↑	36·64	...
Stonyhurst College	Rev. W. Sidgreaves	11	1	0	376 ⇈	47·66	197
D ,, ,,	,, ,, ,,	11	2	0	377 ⇈	47·50	197
,, ,, ...M	,, ,, ,,	11	1	0	376 ⇈	46·66	...
Preston W. Works. Knowle Green ....M	T. Cookson, Esq.	8	1	2	400 ↑	42·62	...
Preston W. Works. Loud-scales ....M	,, ,, ,,	8	1	2	400 ↑	38·61	...
Preston W. Works. Spade Mill ....M	,, ,, ,,	8	1	2	400 ↑	40·68	...
Preston W. Works. Jeffrey Hill ....M	,, ,, ,,	8	1	2	900 ↑	44·68	...
D St. Michael's-on-Wyre Vic. No. 3	Rev. P. J. Hornby	5	1	0	26 ⇈	34·77	191
D Beaton Fell (Barnsfold Res.)	J. J. Myres, Esq., C.E.	5	1	6	506 ⇈	33·14	161
,, ,, (,, ,,) M	,, ,, ,,	5	1	6	506 ⇈	32·96	...
Barrowford Reservoir	Leeds & L'pool Canal Co.	8	1	0	473	40·97	...
Foulridge (Canal Office)	,, ,, ,,	8	1	0	497	41·61	...
,, (Cragg Nook Hill)	,, ,, ,,	8	1	0	690	37·56	...
,, (Upper Reservoir)	,, ,, ,,	8	1	0	582	38·97	...
D Garstang (Bruna Hill)	Sydney Wilson	5	0	6	71 ⇈	34·93	181
Clitheroe (Downham Hall)	R. Assheton, Esq.	10	1	6	464 ⇈	39·94	...
D Chatburn (Middlewood)	W. K. Wilkinson, Esq.	5	1	3	363 ↑	41·11	151
Garstang (Fairsnape Clough) M	Messrs. A. & S. Wilson	5	1	0	930 ↑	59·00	...
,, (Barnacre Reservoir)	C. Arthur, Esq.	10	1	0	617 ⇈	43·47	...
,, (Grizedale Reservoir)	,, ,, ,,	10	1	0	519 ↑	43·67	...
,, (,, Stake House)	,, ,, ,,	10	1	0	775	53·40	...
Pilling ....M	Messrs. A. & S. Wilson	5	0	9	12 ↑	36·58	...
Wyresdale (Abbeystead)	J. Cook, Esq., C.E.	8	1	0	366 ↑	41·54	155

DIVISION VIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above SeaLevel	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	LANCASHIRE—(*con.*)						
	Quernmore (Old Gauge Basin) M	J. Cook, Esq., C.E. ...	8	1 0	963 T	45·45	...
	Wyresdale (Wardstone) .....M	,, ,, ,, ...	8	1 0	1440 T	59·11	...
	Quernmore (Brow Top).....	,, ,, ,, ...	8	1 0	552 T	40·84	159
	Heysham House.....	Miss Tomlinson	5	1 6	80	45·37	149
	Lancaster (Marton Street Yard).	J. Cook, Esq., C.E. ...	8	1 9	70 ⅄	38·36	187
	,, (Greg Observatory)...	Dr. Schloesser.....	8	1 0	312	39·59	187
	,, (Escowbeck, Caton)...	A. Greg, Esq.....	10	3 0	150 T	37·63	176
	,, (Caton)	Rev. W. J. Locke.....	5	1 0	160	38·83	...
	Morecambe.....	Mr. T. B. Lamb.....	8	1 0	24 T	33·43	154
D	Wray Vicarage	Rev. C. L. Reynolds...	5	1 0	165 T	40·25	169
	Melling (Hornby Castle)	Col. Foster, M.P.	8	1 8	100	43·31	154
	Barrow-in-Furness	W. Fergusson, Esq. ...	11	1 6	36 ⅄	38·70	163
	Arkholme (Storrs Hall)	F. F. Pearson, Esq. ...	5	1 0	220	43·01	...
D	Carnforth (Yealand Conyers) ...	W. O. Roper, Esq.....	5	1 0	250	39·05	162
	Silverdale	Mr. T. R. Taylor	8	1 0	120	43·08	159
D	Ulverston (Urswick).....	Rev. R. B. Billinge ...	5	1 0	131	42·23	108
D	Lindal (Berkune Mines)	F. A. Ainslie, Esq. ...	5	8 0	215 T	39·54	183
D	Cartmel (Carke)	Mr. W. R. Nash	5	1 0	75 ⅄	39·39	187
†	,, (Holker)	Mr. W. Fox	8	4 8	155 ⅄	39·35	160
D	Grange-over-Sands (Belmont)...	Dr. W. M. Burman ...	5	1 0	180 T	42·48	189
D	,, ,, ,, (Eggerslack)	Miss Arkwright	5	2 6	140 B	45·98	199
D†	Ulverston (Poaka Beck)	W. Fergusson, Esq. ...	11	1 6	512 ⅄	48·15	220
	Cartmel (Pit Farm)	Mr. W. R. Nash	5	1 0	122 T	41·10	...
	,, (Broughton Hall)	Col. Ainsworth	5	2 8	225	43·38	178
	Colton.....	Rev. A. Christopherson	5	1 0	226 ⅄	56·45	191
	,, ...M	,, ,, ,,	8	1 0	226 ⅄	56·25	...
D	Finsthwaite Vicarage	Rev. S. Inman	8	1 2	250	55·30	185
D	Broughton-in-Furness	C. Chambers, Esq.....	5	1 3	100	52·17	191
D	Blawith	Rev. J. Ashburner.....	5	0 10	185 T	59·22	188
D	Cartmel Fell Vicarage	Rev. W. Summers.....	5	0 8	220 T	56·53	193
D	Hawkshead (Esthwaite Lodge)..	Major Alcock-Beck ...	5	3 6	232 T	67·72	204
	,, (,, StricklandEase)	,, ,, ,, ...	5	3 6	254 T	61·61	...
D†	Duddon Valley (Seathwaite Vic.)	Rev. S. R. M. Walker.	5	1 0	330 T	83·22	218
D†	Monk Coniston Park	Mr. Wray	5	1 2	305 T	91·72	200
	Hawkshead (Black Fell) .....M	S. A. Marshall, Esq....	5	1 6	1055 T	68·45	...
C	Skelwith Fold [Ambleside]	,, ,, ,, ...	5	1 0	333	81·37	225
	,, ,, [,,] ...M	,, ,, ,, ...	5	1 0	333	81·60	...

DIVISION IX.—YORKSHIRE.

	WEST RIDING.						
	†Sheffield (Brincliffe Edge)	Gt. Central R. Co.	9	3 6	336 T	30·10	157
D	,, (Stumperlow Hall) ...	H. J. Dixon, Esq.....	5	1 0	700	35·65	169
D†	,, (Redmires Res.)..	L.S.M.Marsh,Esq.,C.E.	10	5 0	1110 ⅄	37·88	181
	,, (,, ,,) *weekly*	,, ,, ...	8	4 0	1110 ⅄	37·65	...
D	,, (Tylecote, Ranmoor) ...	J. Dixon, Esq.	5	1 0	610 ⅄	33·67	188

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	Height Above Sea Level in.	Depth of Rain. 1899	Days on which ·01 or more fell.
				feet.	inches.	
WEST RIDING—(*con.*)						
D Sheffield (Rivelin)	L.S.M.Marsh,Esq.,C.E.	10	4 0	564 ⩚	33·41	163
,, (,,) *weekly*	,, ,, ,,	8	4 0	564 ⩚	33·33	...
D† ,, (Crookes)	,, ,, ,,	10	2 0	629 ⩚	29·49	149
† ,, (,,) *weekly*	,, ,, ,,	8	2 0	629 ⩚	29·58	...
D ,, (Weston Park)	E. Howarth, Esq.	8	1 0	430 ⩚	29·55	166
† ,, (Victoria Station)	Gt. Central R. Co.	9	3 6	188 T	21·62	148
D Rotherham (Ulley Res.)	G. W. Jennings, Esq.	5	1 0	184	19·42	129
Sheffield (Tinsley Locks)	Gt. Central R. Co.	9	...	117 T	21·13	150
D Tickhill (Sandbeck Park)	Mr. G. Summers	8	1 0	150 T	22·68	157
D† Rotherham (Moorgate Grange)	C. E. Chrimes, Esq.	5	1 0	262 ⩚	23·00	137
,, (Thrybergh)	W.H.R.CrabtreeEsqCE	8	1 0	184 ⩚	22·08	160
D Tickhill	G. G. Phillips, Esq.	8	1 0	61 ⩚	22·98	155
D Sheffield (Chapeltown)	Mr. D. Bell	8	5 0	582 L	26·93	170
Doncaster (Firsby)	W.H.R.CrabtreeEsqCE	8	1 3	189 ⩚	22·93	156
D ,, (Wadworth Hall)	Rev. J. C. Ross	8	1 0	190 ⩚	23·45	183
D Bolsterstone (Waldershaigh)	C. M. Wilson, Esq.	8	3 1	950 T	31·32	183
D Wentworth Woodhouse	Mr. J. Hughes	5	0 10	360 T	25·56	138
Mexborough	GFenwickCarterEsqCE	5	2 0	170 ⩚	21·26	154
Wortley	Gt. Central R. Co.	9	3 6	548 T	27·09	159
Elsecar	,, ,, ,,	9	3 6	181 T	22·04	141
†Langsett Moor (Pike Lowe)	J. H. Taylor, Esq.,C.E.	5	1 0	1358 T	46·90	...
† ,, ,, (Ewden Height)	,, ,, ,,	5	1 0	1099 T	42·93	...
† ,, ,, (Range Moor)	,, ,, ,,	5	1 0	1040 T	44·91	...
D† ,, ,, (Upper Midhope)	,, ,, ,,	5	1 0	912 T	41·51	191
Langsett	W. Watts, Esq., C.E.	8	4 3	960 ⩚	33·82	167
,,	,, ,, ,,	8	4 9	802 ⩚	34·40	167
D Hoyland (King Street)	J. W. Wilson, Esq.	5	1 0	330	24·44	151
D Wath-upon-Dearne (Chapel St.)	Dr. Burman	8	1 0	185 ⩚	23·52	162
Worsborough	Gt. Central R. Co.	9	3 6	225 T	23·23	146
D Stainborough(WentworthCastle)	W. Fisher, Esq.	8	2 6	520 T	26·87	152
Doncaster	Gt. Central R. Co.	9	3 6	32 T	20·73	154
,, (Pumping Station)	WHR Crabtree, Esq CE	8	1 2	30 ⩚	22·75	147
D ,, (Magdalens)	Mr. C. Parkin	5	4 9	46 T	21·72	147
DunfordBrdg.(Up.Windleden)M	H. Dearden, Esq., C.E.	12	2 2	1100	44·30	...
† ,, ,, (Dearden Res.) M	,, ,, ,,	12	1 6	1244 T	45·51	...
† ,, ,, Station	Gt. Central R. Co.	9	3 6	954 T	44·53	172
D† ,, ,, Reservoir	H. Dearden, Esq., C.E.	12	2 0	1111 T	42·55	179
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E.	7	0 7	...	47·90	...
,, (Yeoman Hey)	,, ,, ,,	7	0 7	759	46·80	...
†Penistone (Carlcotes)	Gt. Central R. Co.	9	4 0	1075 T	39·93	182
† ,,	,, ,, ,,	9	3 6	717 T	29·19	157
† ,, (Hazlehead)	,, ,, ,,	9	3 9	868 T	45·22	190
D† ,, (Ingbirchworth Res.)	J. H. Taylor, Esq. C.E.	8	1 3	853 ⩚	33·12	181
Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1 0	861 ⩚	51·40	...
† ,, (Holme Styes)	Mr. L. Hinchliffe	7	2 0	830 T	47·50	...
† ,, (Boshaw Whams)	,, ,, ,,	7	2 0	930 T	48·30	...
† ,, (Bilberry Reservoir)	,, ,, ,,	7	2 0	820 T	56·80	...
D Barnsley (Church Street)	Dr. Sadler	5	5 2	355 ⩚	25·18	179

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above SeaLevel feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
WEST RIDING—(*con.*)							
Barnsley (Beckett Square)	J. H. Taylor, Esq., C.E.	8	1	0	306 ⩛	26·09	166
,, ...	Gt. Central R. Co.....	9	3	6	317 T	22·87	127
†Saddleworth Station ..... M	L. K. Jones, Esq.....	5	4	2	630 T	36·72	...
Barnsley (Cawthorne)	Rev. C. T. Pratt.....	5	1	6	340 ⩛	28·30	143
Strinesdale [Oldham]	C. J. Batley, Esq., C.E.	5	4	0	815 ⩛	31·60	162
†Meltham (Harden Moss)	J. W. Schofield, Esq....	8	1	2	1212 T	46·49	...
,, (,, ,,) *new g.*	,, ,, ,, ...	8	1	0	1212 T	46·32	...
Wessenden Head	,, ,, ,, ...	8	1	0	1270 T	41·22	...
,, (Hollin Bank Moss) ..	,, ,, ,, ...	8	1	0	1360 T	29·87	...
,, (Great Butterley) ...	,, ,, ,, ...	8	1	0	1110 T	42·06	...
,, (Bobus).....	,, ,, ,, ...	8	1	0	1200 T	42·50	...
D Standedge (Castleshaw).....	C. J. Batley, Esq., C.E.	8	4	6	876 ⩛	37·20	180
,, (Redbrook Res.) *old g.*	L. K. Jones, Esq.	8	1	8	1150	39·33	...
,, (,, ,,)*new g.*	,, ,, ,, ...	8	1	6	1150	39·52	...
†Meltham (Brow Grains)	J. W. Schofield, Esq....	8	1	0	900 T	42·93	...
Denshaw (Ox Hey)	C. J. Batley, Esq., C.E.	5	4	6	1030 ⩛	39·56	172
D ,, (New Year's Bridge)...	,, ,, ,,	5	4	0	1012 ⩛	40·57	172
,, (Ready Con Dean).....	,, ,, ,,	5	4	6	1414 ⩛	36·78	172
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1	0	585 T	48·25	...
D ,, (HarewoodLodge)*newg*	,, ,, ,, ...	8	1	0	514 L	44·06	191
† ,, Grange	J. W. Schofield, Esq....	8	1	2	850 T	40·04	...
†Marsden (Deer Hill) ..... *old g.*	,, ,, ,,	8	1	0	1149 T	41·40	...
,, (,,) .....*new g.*	,, ,, ,, ...	8	1	0	1149 T	44·04	...
D Doncaster (Kirk Bramwith).....	H.A.Brundell,Esq.C.E.	5	1	0	17 ⩛	23·60	187
D†Slaithwaite (Blackmoorfoot).....	J. W. Schofield, Esq....	8	1	0	800 T	43·48	194
Honley (Northgate House)	W. Brooke, Esq.	5	1	0	350 T	37·16	...
D Hemsworth Hall	F. G. Leatham, Esq....	5	1	0	250 T	22·75	163
D Chapelthorpe (Crigglestone).....	H. T. Burbury, Esq....	5	1	0	306 ⩛	25·93	165
D Wakefield (Walton)	E. Simpson, Esq.	5	1	0	140 T	20·21	147
Huddersfield (BankField,Golcar)	J. E. Ramsden, Esq....	5	1	0	400 T	38·05	172
D ,, (Cemetery)	Mr. J. Firth	8	4	0	400	33·89	168
D† ,, (Dalton)	J. W. Robson, Esq. ...	12	1	0	350 ⩛	40·01	171
Longwood (Bilberry Edge)	J. W. Schofield, Esq...	8	1	0	1090 T	39·35	...
Rishworth (Ringstone Res.).....	CClemeshaSmithEsqCE	8	1	6	990 T	42·90	188
D Ackworth (Nostell Priory)	Mr. J. Easter	5	4	0	...	23·70	152
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq..	8	1	2	200	27·66	156
D Ossett (Lowood House).....	Dr. G. S. Greenwood...	5	1	0	300 T	24·57	145
D†Wakefield Prison	Mr. A. Clyde	5	1	0	96 ⩛	24·40	145
D ,, (Field Head)	C. C. Smith, Esq., C.E.	8	1	6	250 T	23·81	149
D ,, (Stanley Grange).....	H. S. Haworth, Esq....	5	1	0	235 T	24·37	186
D Goole (Swinfleet)	Mr. G. Harrison.....	5	5	6	...	25·21	133
D ,, ...	W. E. Grayburn, Esq.	5	1	0	18 T	21·36	155
Rastrick	Messrs. J.T.Clay & Sons	5	20	0	380	30·10	123
Batley (Staincliffe Reservoir) ...	O. J. Kirby, Esq., C.E.	7	1	0	492 ⩛	25·80	...
D ,, (Woodwell Depôt)	,, ,, ,,	8	1	0	301 ⩛	25·60	141
D Sowerby Bridge (Haugh End) ...	J. S. Rawson, Esq. ...	5	0	8	450 T	42·95	187
D Todmorden (Fielden Hospital)...	Mr. F. Rogers	5	1	0	650 T	47·27	190
,, (Sourhall Hospital)..	,, ,, ...	5	1	0	1020	51·14	...

DIVISION IX.—YORKSHIRE.—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	WEST RIDING—(*con.*)							
	Halifax (Bents, Norland) .....M	J. S. Rawson, Esq. ...	5	0	8	800 T	37·71	...
D	,, (BermersideObservatory)	J. Gledhill, Esq.	8	0	6	500	34·71	173
D	,, (Hall Ings, S. Owram)...	Rev. G. E. Aspinall ...	5	0	7	750 T	34·19	174
	,, (Thorpe) ... . M	J. S. Rawson, Esq. ...	8	0	8	345 T	43·91	...
	,, (,,)	,, ,, ...	5	0	8	345 T	43·83	173
D	,, (Public Library)	J. Whiteley, Esq.	8	1	0	625 T	35·33	171
†	,, (Albert).....	J. A. Paskin, Esq., C.E.	5	1	0	795 T	35·30	...
†	,, (Gibbet)	,, ,, ,,	5	6	0	568 T	36·18	...
†	,, (Ramsden Wood)	,, ,, ,,	8	1	2	816 T	38·20	...
D	Mytholmroyd (Ewood Hall).....	Mrs. Riley	8	1	6	500 T	41·61	176
	Hebden Bridge (Falling Royd)..	A. R. Crossley, Esq....	4	1	0	479 ⊼	46·68	172
D	,, ,, (Summerfield)...	J. Hoyle, Esq.	5	0	8	900 ⊼	38·76	192
	Halifax (Castle Carr)	J. A. Paskin, Esq., C.E.	...	...		1060 T	39·46	...
†	,, (Midgley Moor) .....M	,, ,, ,, ...	7	0	6	1350 T	46·45	...
†	,, (Warley Moor).....M	,, ,, ,, ...	7	0	6	1425 T	42·56	...
†	,, (Ogden) .....M	,, ,, ,, ...	8	1	3	990 T	42·59	...
	,, (Ovenden Moor)	,, ,, ,, ...	...	...		1375	46·70	...
	,, (Widdop).....	,, ,, ,, ...	...	...		1050	43·17	...
†	,, (Walshaw Dean).....M	,, ,, ,, ...	8	0	3	1380 T	39·69	...
D	South Milford Rectory	Rev. F. J. Young	5	1	2	70 ⊼	21·24	170
D	Pudsey	Dr. W. Lovell Hunter.	5	1	0	521 T	28·47	166
	Bradford (Horton).....	Mr. A. E. Chilton	5	5	0	450 T	29·37	177
	,, (Queensbury).....	R. J. Foster, Esq.....	8	2	2	1050	34·78	138
D	,, (Bowling Dyeworks)..	H. Ripley, Esq.....	8	1	0	490 T	27·25	181
	,, (Brayshaw Reservoir)..	J. Watson, Esq., C.E..	5	1	0	982 ⊼	36·36	191
D	,, (The Exchange).....	H.A.Johnson,Esq.,C.E.	8	65	6	395 ⊼	29·20	193
	,, (Thornton Moor)	J. Watson, Esq., C.E..	5	1	0	1218 ⊼	42·30	220
	,, (Stubden) .....*old g.*	,, ,, ,, ..	8	1	0	1075 ⊼	44·86	201
	,, (,,) .....*new g.*	,, ,, ,, ...	5	1	0	1071 ⊼	36·89	201
	,, (Nan Scar,Oxenhope)M	,, ,, ,, ...	5	1	0	1101 ⊼	47·17	...
	,, (Stairs Top) .....M	,, ,, ,, ...	5	1	0	1401 ⊼	42·42	...
	,, (Leeming Reservoir) M	,, ,, ,, ...	5	1	0	850 ⊼	42·02	...
	,, (Doe Park) .....*old g.*	,, ,, ,, ...	8	1	0	810 ⊼	44·03	195
	,, (,, ,,) .....*new g.*	,, ,, ,, ...	5	1	0	811 ⊼	38·48	195
	,, (Manningham)	J.McLandsborough,Esq	5	6	6	428 ⊼	30·47	...
	,, (,, Lodge)..	J. Priestman, Esq.....	5	1	0	507	30·45	166
	,, (Leeshaw Res.) ..... M	J. Watson, Esq., C.E..	5	1	0	875 ⊼	45·67	...
	,, (Chellow Dean)	,, ,, ,, ...	5	1	0	645 ⊼	36·60	186
	,, (Hewenden Res.). *old g.*	,, ,, ,, ...	5	1	0	700 T	40·50	195
	,, (,, ,,)*new g.*	,, ,, ,, ...	5	1	0	701 ⊼	38·71	195
	,, (Heaton Res.) ...*old g.*	,, ,, ,, ...	8	1	0	530 ⊼	31·26	178
	,, (,, ,,)...*new g.*	,, ,, ,, ...	5	1	0	531 ⊼	30·59	177
	Leeds (Wortley Res.)	T. Hewson, Esq., C.E..	8	0	9	307 ⊼	27·18	162
	,, (Knostrop)	,, ,, ,,	8	0	9	72 T	24·45	165
D	,, (Holbeck)	Messrs. J. Rhodes & Co.	10	32	0	127 ⊼	20·56	114
D	,, (,, W. WorksDepot)	T. Hewson, Esq., C.E..	8	0	9	93 ⊼	24·38	155
D	,, (Museum).....	H. Crowther, Esq.....	10	46	0	177 ⊼	23·32	150
	,, (Woodhouse Moor).....	T. Hewson, Esq., C.E.	8	0	9	307 ⊼	25·93	165

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which '01 or more fell.
	WEST RIDING—(*con.*)							
D	Leeds (Woodhouse Cliff)	Mrs. Reynolds	5	1	0	330	24·66	176
	,, (Elmet Hall, Roundhay)	Mr. W. Tindall	5	1	6	400 T	27·22	156
	,, (Weetwood Reservoir)	T. Hewson, Esq., C.E.	8	0	9	328 ⊼	26·09	164
	,, (,, Lodge)	J. P. Reay, Esq.	5	0	9	400 T	...	...
D	,, (Allerton Hill)	T. Fenwick, Esq., C.E.	5	0	7	418 ⊼	25·46	182
D	,, (Oliver Hill, Horsforth)	C. France, Esq.	3	1	0	250 T	27·12	174
	Shipley (Crag End)	Leeds & L'pool Canal Co.	8	1	0	304	30·32	...
	,, (Moor Head)	Mrs. Knowles	8	10	0	500	28·61	160
	Oakworth (Oldfield)	W H Hopkinson, Esq. C.E	5	1	0	1008 ⊼	38·57	...
	Bingley (Gilstead Filters)	J. Watson, Esq., C.E.	5	1	0	572 ⊼	26·84	184
D	Keighley (The Knowle)	W. Clough, Esq.	5	1	0	385 T	35·99	170
D	Adel (Lawns Wood)	Mr. C. S. Irvine	5	1	0	475 T	28·33	172
	,, (Eccup, South)	T. Hewson, Esq., C.E.	8	0	9	390 T	25·02	170
	,, (,, East)	,, ,, ,,	8	0	9	375 ⊼	24·36	168
	Bingley (Sunnydale)	J. Watson, Esq., C.E.	5	1	0	825	32·88	186
D	Harewood House	Countess of Harewood.	5	1	0	300	26·74	173
	,, (Arthington)	T. Hewson, Esq., C.E.	8	0	9	139 ⊼	27·87	163
D	Skipton (Bolton Road, Silsden)	Mr. A. Elder	5	1	0	370 T	28·74	152
D	Ilkley	G. W. Worfolk, Esq.	5	20	0	312 ⊼	33·55	158
D	,, (Eaton Road)	A. Wilson, Esq.	5	1	0	360 T	33·47	195
†	,, (Cherry Bank)	Mr. T. Robinson	8	1	3	600	37·52	...
	Skipton (Silsden Reservoir)	J. Watson, Esq., C.E.	5	1	0	560 ⊼	30·67	166
	Pannal (Kirkby Overblow)	A. Rowntree, Esq.	5	0	9	340 T	25·38	181
	Leathley (Lindley Wood S)	T. Hewson, Esq., C.E.	8	0	9	312 T	31·17	193
	,, (,, ,, N)	,, ,, ,,	8	0	9	320 T	30·78	193
	Slaidburn (Hareden Brook) M	T. Cookson, Esq.	8	1	2	540	66·30	...
	,, (Langden Brook) M	,, ,,	8	1	2	556	65·65	...
	,, (Whiteholme)	W. K. Wilkinson, Esq.	5	1	3	475 T	51·05	154
	Skipton (Cringle's Reservoir)	J. Watson, Esq., C.E.	5	1	0	760 T	33·10	168
	,, (Counter Hill)	,, ,, ,,	5	1	0	951 T	29·40	...
	,, (Chelker Reservoir) M	,, ,, ,,	5	1	0	730 ⊼	35·59	...
D	,, (Marton House)	W. Farrer, Esq.	5	0	10	568	39·45	181
†	,, (*Craven Herald* Office)	E. Townsend, Esq.	8	2	0	360	33·61	165
	,, (Hawthorne Cottage)	Leeds & L'pool Canal Co.	8	1	0	380	33·68	...
	Gargrave (Banks Hill Bank Newtn)	,, ,, ,,	8	1	0	545	29·84	...
	,, (Ray Bridge Hill)	,, ,, ,,	8	0	10	459	37·45	...
	,, (Great Scarnber Hill)	,, ,, ,,	8	0	9	676	42·31	...
	Slaidburn (Dunsop Houses)	W. Stubbs, Esq., C.E.	8	1	0	450 T	60·17	183
	,, (Middle Knoll) M	,, ,, ,,	8	2	6	1298 ⊼	51·10	...
	,, (Brennand)	,, ,, ,,	8	1	0	820 ⊼	61·34	192
	,, (Whitendale)	,, ,, ,,	8	1	0	830 ⊼	64·39	188
	,, (Cabin Hill) M	,, ,, ,,	8	3	1	1559 ⊼	57·26	...
	,, (Baxton Fell) M	,, ,, ,,	8	2	6	1540 ⊼	54·10	...
	Winterburn (Long Hill)	Leeds & L'pool Canal Co.	8	0	9	705	39·21	...
	,, (Brown Hill)	,, ,, ,,	8	1	0	961	43·47	...
D	York (Mount Villas)	J. S. Rowntree, Esq.	5	1	0	70	24·02	203
D	,, (Burton Croft)	G. Crawhall, Esq.	5	1	0	45 T	21·95	156
D	,, (Cherry Hill)	Mrs. H. Richardson	5	1	6	40	22·35	174

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	WEST RIDING—(*con.*)							
	York (The Retreat)	Dr. H. J. Mackenzie...	5	1	0	74	18·67	158
D	Wetherby (Ribston Hall)	Mr. J. McClelland	5	1	2	130 T	27·72	148
	Bolton Abbey Estate Office	A. Downs, Esq.....	5	1	2	350	34·31	164
D	Goldsborough Hall	Mr. R. Goodall	5	1	0	...	28·01	173
D	Nun Monkton	H. Horsfield, Esq.....	5	1	0	45	23·71	165
	Fewston (Swinsty E)	T. Hewson, Esq., C.E.	8	0	9	460 T	33·67	195
	,, (,, W)	,, ,, ,, ...	8	0	9	425 T	33·73	195
	,, (Timble Ings)	,, ,, ,, ...	8	0	9	912 T	34·59	196
	,, (Timble)	,, ,, ,, ...	8	0	9	720 T	30·74	201
	,, South	,, ,, ,, ...	8	0	9	525 T	33·81	196
	,, North	,, ,, ,, ...	8	0	9	525 T	32·92	196
	,, (Spinksburn)	,, ,, ,, ...	8	0	9	636 T	30·93	181
	Blubberhouses	,, ,, ,, ...	8	0	9	575 T	34·76	191
	†Harrogate (Ten Acre Reservoir)	E.W. Dixon, Esq., C.E.	8	1	6	620 T	27·93	166
	,, (Bonny Cap)	,, ,, ,,	8	1	6	700 T	28·97	153
	,, (Wonderful House)	,, ,, ,,	8	1	6	740 T	28·89	168
	,, (Wilson's Farm)	,, ,, ,,	8	1	6	630 T	28·55	176
†	,, (Beaver Dyke Res.)	,, ,, ,,	8	0	11	575 T	29·35	182
D†	,, (Harlow Hill)	G. Paul, Esq.....	5	1	0	589	29·77	173
†	,, (Irongate)	E.W. Dixon, Esq., C.E.	8	1	6	455 T	27·88	149
D†	,, (The Stray)	Mr. Gledhill	5	1	0	380	27·05	175
D†	,, (Park Parade)	,, ,, ...	5	1	0	400	27·97	175
	Barden Reservoir ..... *old g.*	J. Watson, Esq., C.E..	8	1	2	746 T	42·19	209
	,, ,, ... *new g.*	,, ,, ,, ...	5	1	0	746 T	42·00	209
	West End (Hard Ing)	T. Hewson, Esq., C.E.	8	0	9	1030 T	37·21	180
	,, ,, ...	,, ,, ,,	8	0	9	795 T	37·94	197
	,, ,, Garden	,, ,, ,,	8	0	9	787 T	40·58	198
	,, ,, (Rocking Hall)	,, ,, ,,	8	0	9	1225 T	39·93	177
	,, ,, (Thruscross)	,, ,, ,,	8	0	9	900 T	34·50	196
	,, ,, (,, No. 2)	,, ,, ,,	8	0	9	910 T	30·72	191
	,, ,, (Lane Head)	,, ,, ,,	8	0	9	938 T	35·93	178
	Upper Barden Reservoir	J. Watson, Esq., C.E..	5	1	0	1250 T	42·23	209
	Burnsall (Thorpe Fell) .....M	,, ,, ,, ...	5	1	0	1661 T	39·25	...
	,, (Sandbed Beck) .....M	,, ,, ,, ...	5	1	0	676 T	42·90	...
D	,, Rectory	Rev. W. J. Stavert ...	8	4	5	503 T	46·42	196
	Washburn Dale (Ray Bank)	T. Hewson, Esq., C.E..	8	0	9	1137 T	39·14	172
	,, ,, (High House)	,, ,, ,,	8	0	9	1112 T	35·57	155
	,, Head	,, ,, ,,	8	0	9	1275 T	37·87?	165
	†Knaresborough (Conyngh'm Hall)	Mr. G. Knight	5	1	3	200 T	25·16	122
D	,, (Farnham)	R. Elmhirst, Esq.	5	1	0	170 T	24·17	178
D	Ripley Castle	Mr. J. Tunnington.....	5	1	0	230 T	27·13	162
D	Settle (The Terrace)	J. W. Shepherd, Esq..	8	1	2	525 T	44·12	193
D†	Pateley Bridge (Castle Stead)	Mr. C. May	5	1	0	410	40·83	169
	Grimwith Reservoir ..... *old g.*	J. Watson, Esq., C.E..	8	1	0	890 T	45·34	189
	,, ,, ... *new g.*	,, ,, ,, ...	5	1	0	893 T	45·05	189
	,, (Trunla Hill) .....M	,, ,, ,, ...	5	1	0	1201 T	37·68	...
	Pateley Moor (Smaden Head)	T. Hewson, Esq., C.E..	8	0	9	793 T	31·80	156
D†	Malham Tarn ..... *old g.*	Mr. Coulthard	5	1	0	1296 T	54·84	210

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1899	Days on which '01 or more fell.
			ft.	in.	feet.	inches.	
WEST RIDING—(*con.*)							
D Malham Tarn .....*new g.*	Mr. Coulthard	8	1	0	1296 ⊼	54·48	210
Dallow Moor (High Skeldon) ...	T. Hewson, Esq., C.E..	8	0	9	719 ⊼	36·33	155
,, ,, (Harper Hill)	,, ,, ,, ...	8	0	9	859 ⊼	36·90	165
D† Ripon (The Red House)	F. D. Wise, Esq.	5	1	0	120	27·73	188
D ,, (W.W. Lumley Moor) ...	Mr. G. Craggs	8	0	6	572 T	40·06	146
Ramsgill (Raygill House)	J. Watson, Esq., C.E..	5	1	0	925 T	45·57	172
,, ...	,, ,, ,,	5	1	0	450 T	45·90	171
D† Arncliffe Vicarage	Rev. W. A. Shuffrey...	8	3	0	734 T	62·41	190
D ,, (Amerdale).....	J. Hammond, Esq. ...	8	1	6	734	57·43	202
D Ingleton Vicarage.....	Rev. J. Turner	5	0	6	500	*41·68*	207
† Nidderdale (High Riggs)	J. Watson, Esq., C.E..	5	1	0	1010 T	46·34	174
,, (East Gill Head)... M	,, ,, ,, ...	5	1	0	1710 ⊼	53·75	...
† ,, (Rain Stang) ..... M	,, ,, ,, ...	5	1	0	1470 T	51·20	...
† ,, (Angram).....	,, ,, ,, ...	5	1	0	1150 T	50·73	141
† ,, (New Houses)	,, ,, ,, ...	5	1	0	755 T	48·57	182
Kirkby Malzeard (Drovers' Inn)..	T. Hewson, Esq., C.E.	8	0	9	633 ⊼	33·29	170
,, ,, (Hawset)	,, ,, ,, ...	8	0	9	820 ⊼	40·65	192
,, ,, (Hambleton Hill)	,, ,, ,, ...	8	0	9	1106 ⊼	43·66	...
,, ,, (Bagwith Brae).	,, ,, ,, ...	8	0	9	697 ⊼	36·38	175
,, ,, (Stone & Ears Wham)	,, ,, ,, ...	8	0	9	1118 ⊼	42·61	...
D Ripon (High Bank, Mickley) ...	Miss Harrison.....	5	1	6	225 T	30·82	158
Masham Moor (Benjy Guide) ...	T. Hewson, Esq., C.E..	8	0	9	1412 ⊼	49·92	...
,, ,, (W. Somerside)...	,, ,, ,, ...	8	0	9	960 ⊼	43·11	138
,, ,, (High Sour Mire)	,, ,, ,, ...	8	0	9	884 ⊼	39·57	141
,, ,, (Leighton).....	,, ,, ,, ...	8	0	9	636 ⊼	38·99	172
,, ,, (Low Houses).....	,, ,, ,, ...	8	0	9	693 ⊼	41·24	154
D Oughtershaw Hall.....	Miss Woodd	8	1	6	1175 T	68·93	185
D† Sedbergh (Brig Flatts).....	J. Handley, Esq.	5	1	0	300 T	52·38	197
D ,, (Akay)	C. E. Taylor, Esq.....	5	1	0	400 T	54·40	180
D ,, (Cemetery).....	Mr. J. Anderson.....	5	1	0	374 ⊼	54·68	190
† ,, (Thorns Hall)	Miss Sedgwick	5	1	0	400 T	53·28	187
EAST RIDING.							
Patrington (Spurn Head).....	The Meteor. Council ...	8	1	0	27	17·43	148
D ,, ...	W. B. Pugh, Esq.	5	2	6	46 ⊼	20·51	118
D Hedon (The Vicarage)	Rev. J. H. Richardson	5	1	0	...	19·78	161
D† Hull (Pearson Park)...	E. A. Peak, Esq.	5	0	6	6	21·59	152
D ,, (Springhead)	F. J. Bancroft, Esq. ...	5	1	7	15 T	22·53	160
D Cottingham (Water Works).....	,, ,, ,,	5	1	1	25 T	21·88	158
D ,, Grange	C. J. Ringrose, Esq. ...	5	4	9	69 ⊼	21·21	158
D Skipwith.....	Rev. C. D. Ash	5	2	6	...	20·95	164
D Beverley (East Riding Asylum).	Dr. Macleod	5	1	0	175 T	24·36	179
D ,, (Register House)	G. A. Thompson, Esq...	5	1	0	22	23·45	179
,, (New Walk)	W. Evans, Esq., C.E...	5	3	0	40	24·16	171
,, (Hull Bridge).....	,, ,, ...	5	2	6	11 ⊼	22·38	156
D Cherry Burton House	late H. J. Hildyard, Esq.	8	0	8	110 T	25·25	173
Market Weighton (Dalton Hall)	Mr. J. Allsop	8	1	4	150 T	24·54	170
D Hornsea (Elim Lodge)	T. B. Holmes, Esq. ...	8	1	3	30 B	22·37	153

DIVISION IX.—YORKSHIRE—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground. ft.	in.	Height above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	EAST RIDING—(*con.*)							
	Brandesburton (Hempholm)	W. Evans, Esq., C.E.	5	2	6	11 ⅄	24·25	184
	Middleton-in-the-Wolds	Rev. H. D. Blanchard.	5	1	0	156	23·78	130
D	Pocklington (Warter)	J. Coxon, Esq.	5	1	10	230 T	27·78	144
	Catton Rectory [York]	Rev. H. L. Puxley	5	0	4	50 T	23·44	...
D	Driffield (Beverley Road)	Rev. J. T. Harwood	8	8	0	68 T	23·28	165
	,, (York Road) *Snowdon.*	W. E. Lovel, Esq.	5	1	0	76 T	24·52	172
	,, (Highfield)	Mr. G.R. Merryweather	5	1	0	76	25·35	154
	Wetwang	Rev. E. M. Cole	5	1	0	235 T	21·81	152
D	Thixendale	Rev. W. H. Fox	10	0	10	425 T	27·34	180
D	Lowthorpe (The Elms)	H. Onslow Piercy, Esq.	5	1	0	63 ⅄	23·24	159
	Hunmanby (Holly Bank)	Miss Suter	5	1	2	...	25·54	...
	NORTH RIDING.							
D	Easingwold (Marton Vicarage)	Rev. F. S. Newman	5	3	3	200	22·83	114
	Terrington Hall	Mr. T. Suffield	5	1	5	300 T	24·16	180
	Malton	E.K.Speigelhalter, Esq.	5	1	0	51	24·66	150
	†Old Malton	H. Hurtley, Esq.	10	1	0	75 T	23·72	...
D	Hovingham (Wigganthorpe)	Mr. J. S. Upex	5	1	0	350 T	24·27	182
D	Baldersby	W. Gregson, Esq.	5	1	0	101 T	27·95	189
D	Thirsk (Sowerby)	C. M. Swarbreck, Esq.	5	1	0	105 T	22·82	184
D	,, (,,)	A. C. Bamlett, Esq.	5	...		...	21·18	143
D	Pickering (The Rectory)	Rev. G. H. Lightfoot	5	0	8	180	23·65	138
D	Bedale (Burneston)	Rev. J. T. Hartley	5	3	9	110 T	26·88	170
D	,, (Thorpe Perrow)	Mr. W. Culverwell	5	1	6	170	28·23	158
	†Aysgarth Vicarage M	Rev. F. W. Stow	3	1	0	643 ⅄	40·34	...
D	,, ,,	,, ,, ,,	8	1	0	648 ⅄	39·20	170
D	†Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1	0	420	35·27	176
D	Seamer (Irton)	W.Millhouse, Esq. C.E.	8	1	0	94	27·65	146
D	Scarborough (Osgodby)	,, ,,	8	1	0	166 ⅄	26·21	124
D	Boltby	A. C. Bamlett, Esq.	...	...		...	21·74	104
D	Northallerton (The Lodge)	W. Stead, Esq., C.E.	8	1	0	131 T	25·57	166
D	,, (Osmotherley)	T. Yeoman, Esq.	8	0	8	650	25·91	152
	Richmond (The Grove)	G. Roper, Esq.	5	1	3	430 T	36·53	130
	Northallerton (Rounton Grange)	The Royal Meteor. Soc.	8	1	0	242	24·86	188
D	Ingleby Manor	Lord De Lisle	5	0	11	440 T	33·71	173
D	,, Greenhow Vicarage	Rev. J. Hawell	5	1	0	448 T	31·08	169
D	East Layton	Mrs. Proud	5	1	0	575 T	28·91	137
D	Stanwick Park [Darlington]	Mr. W. Higgie	5	1	1	300 T	29·45	174
D	Forcett Park [,,]	the late Capt. Michell	5	1	0	360 T	28·14	160
	Great Ayton (Easby Hall)	Mr. J. J. Emerson	5	1	0	355	28·52	158
	Whitby (Royal Crescent)	T. Newbitt, Esq.	8	1	6	145 T	24·45	143
D	,, (Mulgrave Castle)	Mr. J. Corbett	5	1	0	410 T	26·93	189
	Guisborough (Hutton Hall)	Sir J. W. Pease, Bt., M.P.	5	1	3	400 T	28·69	164
D	,, (Lockwood Beck Res)	W. I'Anson, Esq., C.E.	8	1	0	632 ⅄	29·57	178
	,, (,, ,, ,,) M	,, ,, ,,	...	...		...	29·27	...
D	Middlesborough (Ormesby)	Mr. W. Sanderson	5	1	0	100 T	26·11	197
D	,, (Albert Park)	J. M. Parnaby, Esq.	8	2	0	30	25·90	182
D	Hury Res. [Barnard Castle]	D. D. Wilson, Esq.	8	1	0	866 T	41·03	173

DIVISION IX.—YORKSHIRE—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
NORTH RIDING—(*con.*)							
D Mickleton	late G J Symons Esq. F.R.S.	8	1	0	...	37·29	147
† ,, (Lime Kiln Pasture) M	,, ,, ,,	8	1	0	1175 T	39·50	...
† ,, (,, ,, ,,) M	,, ,, ,,	8	1	0	1175 T	41·00	...

DIVISION X.—NORTHERN COUNTIES.

DURHAM.							
D Darlington (Hurworth Grange)	Mrs. Backhouse	5	1	0	161 ⊼	26·68	179
D ,, (Elcott, Hurworth)	Rev. W. E. Stewart	5	1	0	121 T	26·15	180
D† ,, (Cleveland Parade)	S. Hare, Esq.	5	1	0	160 T	26·92	185
D ,, (Public Park)	Mr. J. Morrison	5	1	0	...	28·45	191
D ,, (Langholme Crescent)	J. H. Simpson, Esq.	5	1	6	165 T	26·52	174
D ,, (Hummersknott)	Mr. J. Short	5	1	0	...	25·24	135
D Barnard Castle (County School)	E. Wells, Esq.	5	1	6	540 ⊼	31·20	165
D Heighington (Walworth Castle)	W R Innes Hopkins, Esq	5	0	8	150	27·84	205
Stockton (Rimswell)	W. Anderson, Esq., C.E.	5	1	0	100 T	24·64	198
Bishop Auckland (The Castle)	Mr. E. Ford	5	1	0	300	28·64	190
West Hartlepool (Lynn Street)	Mr. H. Lamb	5	63	0	84	18·02	147
D Hartlepool (Hurworth Burn)	T. Fenwick, Esq., C.E.	5	0	7	360	26·47	125
D ,, (Hart Reservoir)	,, ,, ,,	8	0	9	164	23·24	143
D† Wolsingham	Mr. A. Mitchell	5	1	0	464 ⊼	34·97	196
Eastgate (All Saints' Vicarage)	Rev. J. G. B. Knight	5	0	9	768	43·46	190
D Wearhead	C. Stamp, Esq.	5	0	6	1104	60·78	164
Durham Observatory	The Meteor. Council	12	4	0	340	24·47	194
D Ushaw College	Rev. J. Corbishley	5	0	9	600 ⊼	28·67	174
D Weardale W.W. (Tunstall)	R. Askwith, Esq., C.E.	8	1	2	724 ⊼	33·95	151
† ,, ,, (Waskerley 6)	,, ,, ,,	8	4	2	1229 ⊼	33·33	...
,, ,, (,, 3)	,, ,, ,,	8	4	6	1433 ⊼	33·49	...
† ,, ,, (,, 4)	,, ,, ,,	8	4	7	1321 ⊼	33·50	...
† ,, ,, (,, 5)	,, ,, ,,	8	4	2	1244 ⊼	33·52	...
D ,, ,, (,,)	,, ,, ,,	8	0	11	1179 ⊼	34·44	130
† ,, ,, (,, 2)	,, ,, ,,	8	4	5	1367 ⊼	33·44	...
† ,, ,, (,, 1)	,, ,, ,,	8	4	4	1317 ⊼	33·28	...
D Consett W.W. (Smiddy Shaw)	,, ,, ,,	8	1	3	1128 ⊼	35·19	214
D Seaham Harbour	Mr. G. H. Aird	8	1	6	141	27·34	176
,, Vicarage	Rev. A. Bethune	5	0	6	80 T	27·63	...
D ,, Hall	Mr. R. Draper	5	1	0	106 ⊼	27·27	139
Houghton-le-Spring (Myre Hall)	D. Balfour, Esq., C.E.	5	1	0	261 T	27·59	176
D Sunderland (W. Hendon Ho) No. 5	T. W. Backhouse, Esq.	5	1	0	130 ⊼	28·66	179
,, (,, ,, ,,) No. 6	,, ,, ,,	5	1	0	130 ⊼	28·80	...
D ,, (Fever Hospital)	H. Scurfield, Esq., M.D.	5	1	0	105	26·36	165
D Gateshead (Eighton Cottage)	Miss Favell	5	3	1	515	27·86	186
D Ryton-on-Tyne	J. P. Dalton, Esq.	5	1	0	258 T	25·83	197
,, ,,	J. W. Smith, Esq., M.D.	5	1	6	...	24·59	...
NORTHUMBERLAND.							
D Haltwhistle (Unthank Hall)	Rev. D. Dixon Brown	5	0	9	380 T	31·18	139
D Corbridge (Howden Dene)	J. H. Straker, Esq.	5	0	9	200 T	23·07	166

DIVISION X.—NORTHERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground. ft.	in.	Rain Gauge. Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	NORTHUMBERLAND—(*con.*)							
D	Newcastle (Clifton Road)	Dr. Merz	8	1	6	314 ⅄	22·96	162
D†	,, (Lit. and Phil. Soc.)	H. Richardson, Esq.	8	55	0	160	25·50	125
D†	,, (*Chronicle* Office)	A. Yarrow, Esq.	8	30	0	148	25·38	179
†	,, (Northumberland Rd.)	N. H. Martin, Esq.	8	45	0	155	23·66	191
	,, (Claremont Road)	Mr. T. Bone	4	2	0	240 T	24·99	160
D	,, (Leazes Park)	W. G. Laws, Esq., C.E.	5	1	0	250 ⅄	24·97	164
D†	,, (Town Moor)	A. Wright, Esq.	5	2	0	201 ⅄	25·57	165
D†	,, (Wellburn, Jesmond)	W. H. Holmes, Esq.	5	1	6	161 T	26·86	166
	North Shields (Post Office)	The Meteor. Council	8	1	4	100	25·18	194
D	,, ,, (Chirton Cottage)	J. F. Spence, Esq.	5	0	10	130 T	26·03	195
D	,, ,, (Tynemouth)	J. Walker, Esq., C.E.	5	1	8	65 ⅄	24·48	172
Newcastle and Gateshead W. W.	Whittle Dean	G. Smith, Esq.	10		...	...	23·50	...
	Swinburn (Woodford)	,, ,, ,,	10	0	6	500 ⅄	33·42	...
	North Tyne (Green Crag)	,, ,, ,,	10	0	6	800 ⅄	33·57	...
	,, ,, Valley	,, ,, ,,	10	0	6	300 ⅄	26·31	...
	Hallington	,, ,, ,,	10	0	6	469 ⅄	27·20	...
	,, (Fawcett)	,, ,, ,,	10	0	6	563 ⅄	27·37	...
	Gunnerton Burn (Camphill)	,, ,, ,,	10	0	6	676 ⅄	31·39	...
D	Meldon (Gallowhill Hall)	Mr. J. J. Bray	5	1	0	...	28·12	185
D	Scots Gap (Wallington)	Mr. Keith	8	2	9	446 T	27·60	149
D	Angerton Hall	Mr. R. Elliott	5	1	0	320 ⅄	32·00	161
	Morpeth (Stobhill)	Capt. Terry	5	1	0	150	29·17	...
	,,	T. Matheson, Esq.	8	1	6	100	28·98	170
D	,, (Bothalhaugh Garden)	Hon. & Rev. W. C. Ellis	5	0	10	35 ?	29·51	198
	,, (,, ,,)M	,, ,, ,, ,,	5	0	10	35	28·84	...
D	,, (,, Lawn)	,, ,, ,, ,,	5	0	10	137	27·83	197
	,, (,, ,,) M	,, ,, ,, ,,	5	0	10	135	27·26	...
D†	Scots Gap (Rothley Crag)	J. Daglish, Esq.	5	0	6	665 T	29·48	171
D	Morpeth (Cockle Park)	T. V. Steele, Esq.	8	1	0	325 ⅄	27·98	168
	Ewesley Station (Redpath)	J. F. Smellie, Esq.	...	1	0	850 T	31·61	...
	,, ,, (Tod Crag)	,, ,, ,,	...	1	0	1000 T	32·84	...
	,, ,, (Fallowlees)	,, ,, ,,	...	1	0	850 T	34·03	...
	,, ,, (Chertners)	,, ,, ,,	...	1	0	1000 T	34·06	...
†	Rededale (Horsley)	G. Smith, Esq.	8	1	0	600	25·95	...
†	Rothbury (Brinkburn Priory)	Mrs. Hugh Fenwick	8	1	2	257 T	25·41	...
D†	,, (Cragside)	Lord Armstrong, C.B.	8	1	0	400 ⅄	33·11	170
†	Redewater (Blakehope)	G. Smith, Esq.	8	1	1	830	33·19	...
†	,, (Ellis Crag)	,, ,,	8	1	0	1200	38·09	...
†	,, (Chattlehope)	,, ,,	8	1	0	830	40·80	...
†	,, (Catcleugh)	,, ,,	8	1	0	794	38·94	...
D	Alwinton (Harbottle Castle)	Mr. G. Bowers	...	1	0	500	33·86	167
†	,, (Biddleston Hall)	P. Dodds, Esq.	5	1	0	820 T	33·42	155
	Alnwick Castle	The Meteor. Council	5	0	4	178	28·79	176
D	Howick Hall	Rt. Hon. Earl Grey	8	0	10	121 ⅄	27·51	167
	Ilderton (Lilburn Tower)	E. J. Collingwood, Esq.	10	6	0	300 T	25·04	...
	Wooler	Dr. R. Walker	8	0	10	176 T	27·40	...
D	Bamburgh	Mr. W. C. Good	5	1	0	75 L	26·92	177
D	Pawston [Coldstream]	B. P. Selby, Esq.	8	1	0	328 T	28·83	192
D	Ancroft (Cheswick)	Gen. Sir W. Crossman.	5	0	8	100 ⅄	25·90	191

DIVISION X.—NORTHERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
CUMBERLAND.						
D Millom (Leyfield)	Cedric Vaughan, Esq CE	5	1 2	81 ⩛	41·53	191
D Ravenglass (The Grove)	A. Watt, Esq.	5	1 2	84 T	38·26	171
D Eskdale	Rev. R. H. Snape	5	1 6	150?	64 89	224
D Seascale (Whinthwaite)	Dr. Hellon	5	1 0	52 ⩛	35·18	163
Braystones	W. H. Watson, Esq.	10	3 6	36	34·82	...
Sprinkling Tarn M	late G J Symons, Esq FRS	4	0 6	1985	113·05	...
Wastdale Head M	,, ,, ,,	4	0 6	204 T	102·92	...
Styehead Tarn M	,, ,, ,,	4	0 6	1472 T	120·60	...
†The Stye A M	,, ,, ,,	4	0 6	1077 T	162·74	...
† ,, ,, B M	,, ,, ,,	4	1 0	1077 T	164·53	...
,, ,, C M	,, ,, ,,	4	1 0	1077 T	164·75	...
,, ,, D M	,, ,, ,,	4	1 0	1077 T	139·80	...
†Seathwaite M	,, ,, ,,	4	0 6	422 T	129·59	...
,,	,, ,, ,,	5	1 0	422 T	128·40	...
D*† ,,	The Royal Meteor. Soc.	5	1 0	420 T	126·46	216
,,	S. A. Marshall, Esq.	...	...		125·91	...
Ullscarf M	G. H. Hill, Esq., C.E.	7	1 8	2100 T	130·40	...
St. Bees	Rev. W. H. Alderson	5	1 0	50	45·32	...
D Cleator (The Flosh)	D. Ainsworth, Esq.	5	1 11	208 T	53·92	172
,, Moor Water Works	R. Robertson, Esq.	5	1 3	395 T	61·81	162
†Helvellyn (Birkside) M	G. H. Hill, Esq., C.E.	7	1 3	1900 T	86·10	...
†Wythburn M	,, ,, ,,	7	1 4	580 T	93·10	...
D Borrowdale Vic.=Rosthwaite	Rev. A. J. Heelis	5	1 0	330 T	107·53	205
D†Buttermere (Hassness)	Mr. S. Stewart	5	1 0	355	106·61	218
D†Borrowdale (Grange)	Mr. Threlkeld	5	0 9	271 T	92·25	190
Armboth Fells (The Pewitts)	G. H. Hill, Esq., C.E.	7	1 6	1650 T	94·70	...
Helvellyn (Whiteside)	,, ,, ,,	7	1 6	2100 T	81·50	...
Thirlmere (Dale Head Hall)	,, ,, ,,	7	1 5	620 T	84·60	...
D Winder	Mr. W. M. Thompson	8	22 0	578 ⩛	50·38	139
D†Whitehaven (Irish Street)	Dr. Welby I'Anson	5	1 1	21 ⩛	43·60	183
D†Keswick (Barrow House)	Miss E. G. Langton	8	0 6	282 ⩛	75·12	203
Distington (Gilgarron)	Mr. A. Kydd	5	4 9	470 T	43·50	188
Ullswater (Hallsteads)	S. A. Marshall, Esq.	5	2 0	497 T	61·43	185
Keswick (Deer Close)	John Marshall, Esq.	7	1 9	300 T	65·20	198
,, (Derwent Island) *old g.*	,, ,, ,,	5	0 7	280	64·14	206
,, (,, ,,) *new g.*	,, ,, ,,	5	0 6	290	61·23	206
D ,, (Eskin Place)	J. Postlethwaite, Esq.	8	6 4	298 T	63·99	170
D† ,, (Bank)	J. W. Houghton, Esq.	5	1 0	265 T	62·22	190
D† ,, (Shu-le-crow)	A. Mitchell Dawson, Esq.	5	0 7	296 T	66·47	208
D Cockermouth (Ullock)	J. H. Walker, Esq.	5	1 3	313 ⩛	54·84	196
,, (Whinfell Hall)	the late W Robinson, Esq	5	2 0	265 ⩛	56·62	207
D ,, (Brandlingill)	Col. F. R. Sewell	5	1 0	320 ⩛	59·22	199
D Bassenthwaite (Mirehouse)	Miss Spedding	5	1 1	300 T	55·42	201
D ,, (Bassenfell)	S. G. Rathbone, Esq.	8	1 0	384	45·12	191
D†Cockermouth (Higham)	Miss Hoskins	5	1 0	478 ⩛	48·91	192
D ,, (Broughton Grange)	G. S. Wilson, Esq.	5	1 3	209 ⩛	44·54	176
Penrith (Nandana)	J. C. Varty-Smith, Esq.	5	3 0	650 T	35·36	216
† ,, (Fell Lane, Fir Bank)	T. Lester, Esq.	5	1 0	575 T	36·74	174

DIVISION X.—NORTHERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	CUMBERLAND—(*con.*)							
	Penrith (Greystoke)	H. Walker, Esq.	5	1	3	650	46·02	...
D	,, (,, Belle View)	Mr. M. Rowe	5	4	0	680 T	40·22	201
	,, (Ennim)	Mrs. Riley	8	0	8	660	42·42	159
D	Bassenthwaite (ArmathwaiteHall)	T. M. Hartley, Esq.	8	1	0	...	47·04	204
	Maryport (Netherhall)	H. P. Senhouse, Esq.	8	0	6	27 ⅄	40·87	162
D	Penrith (Nunwick Hall)	MrsHeywood Thompson	5	1	0	298 T	34·24	185
D	Melmerby	Rev. W. Y. Craig	5	0	6	583 T	44·19	174
D	Aspatria (Brayton Hall)	Mr. W. Stewart	8	2	0	200	48·98	199
D	Wigton (Brookfield)	J. J. Jopling, Esq.	5	0	9	124 ⅄	38·89	197
	Wreay Vicarage	Rev. A. R. Hall	5	2	0	310 T	29·96	182
	Geltsdale	C. B. Newton, Esq., C.E.	5	1	2	924 ⅄	39·33	...
	†Carlisle (Cemetery)	S. Cartmell, Esq.	8	3	6	114 ⅄	31·18	187
	,, (Rickerby)	Miles MacInnes, Esq.	8	1	0	50 T	28·71	...
D	,, (Stanwix)	B. Scott. Esq.	8	1	6	100 T	30·90	179
D	,, (Newby Grange)	T. H. Hodgson, Esq.	5	0	8	64 ⅄	27·93	163
	,, (Scaleby)	The Royal Meteor. Soc.	5	1	0	112	30·87	187
D	Brampton (Denton House)	Mr. J. Charlton	5	1	5	541 ⅄	32·91	179
	,, (,, ,,) ...M	,, ,,	5	1	2	541 ⅄	33·10	...
	WESTMORELAND.							
	Kirkby Lonsdale	J. R. Picard, Esq.	7	0	8	215 T	44·30	...
D	,, ,, (Barbon Manor)	A. Ford, Esq.	5	1	3	650 T	46·70	195
D	,, ,, (,,)	Miss Wilkinson	5	1	0	310 T	47·15	168
D	Milnthorpe (Beathwaite, Levens)	W. H. Crewdson, Esq.	5	1	3	120 T	47·18	182
	Kendal (Natland Vicarage)	Rev. W. Kewley	5	1	6	...	43·54	182
D	,, (Helm View)	T. N. Ritson, Esq., C.E.	5	1	0	140 T	51·19	199
D	,, (Holmcroft)	R. Rhodes, Esq.	5	1	3	176 T	52·08	194
D	,, (Ivy Garth)	R. J. Nelson, Esq.	5	1	6	146 T	49·28	183
D	,, (Hawesmead)	G. F. Braithwaite, Esq.	8	0	6	175 ⅄	48·99	193
	,, (Ellergreen)	J. Cropper, Esq.	5	1	6	270 T	59·16	183
D	Bowness (Fallbarrow)	C. S. Rawson, Esq.	8	1	0	135 T	62·70	191
D	Ambleside (Skelwith Bridge)	A. J. Adams, Esq.	5	1	8	190 T	87·06	201
	Little Langdale (Fell Foot) ...M	S. A. Marshall, Esq.	5	2	2	380	102·15	...
D	Ambleside (Gale House)	G.A.Johnston,Esq.M.D.	5	1	0	250 T	75·95	189
D†	,, (Lesketh Howe)	Miss Sharp	5	2	6	175 T	79·52	221
D	Elterwater Hall	Major Robinson	5	1	1	243	84·35	207
D	Dungeon Ghyll	S. A. Marshall, Esq.	5	0	9	310	109·73	218
	,, ,, ...M	,, ,, ,,	5	1	6	311	106·43	...
	Mickleden .....M	,, ,, ,,	5	1	6	490	113·18	...
D†	Grasmere (High Close)	F.M.T.Jones Balme,Esq	8	0	9	553 T	84·66	209
D	,, (Pavement End)	T. A. Green, Esq.	5	1	0	214 T	92·78	211
D	Ravenstonedale (Brownber)	J. Fothergill, Esq.	5	3	0	826 T	48·73	163
	Orton Vicarage	Rev. E. Holme	5	3	6	770 T	56·21	175
D†	Kirkby Stephen (Redmaine Ho.)	Mrs. T. Mason	5	1	0	574 T	45·30	177
	Fairfield .....M	T. A. Green, Esq.	5	1	0	2860 T	93·61	...
	,, ...M	,, ,, ,,	8	1	0	2860 T	92·41	...
	Shap (Vicarage)	Mrs. Whiteside	5	1	0	854 T	47·46	...
	Grisedale (Ruthwaite Lodge) M	Mr. A. Milne	8	1	6	1750	108·92	...

DIVISION X.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which '01 or more fell.
			ft. in.	feet.	inches.	
WESTMORELAND—(*con.*)						
D† Patterdale Hall	Mr. A. Milne	7	1 3	490 T	88·78	208
D ,, (Greenside Mine)	W. H. Borlase, Esq.	7	1 6	1000 T	96·64	148
Appleby (Ormside)	Rev. J. Brunskill	5	4 0	480	35·14	134
D ,, (Castle Bank)	C. R. Rivington, Esq.	5	1 2	440 T	41·11	194
Ullswater (Swarth Fell) M	late G J Symons Esq. FRS	5	1 3	1000 T	51·30	...
,, (Sharrow Bay)	Mr. E. Helps	5	0 7	500	49·55	...
D Great Strickland (Greencroft)	Mrs. Whiteside	5	1 0	634	37·63	178
Lowther Castle [Penrith]	Mr. F. Clarke	8	3 0	750 T	44·44	160
DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.						
MONMOUTH.						
D Rumney (Witla Court)	H. Heywood, Esq.	5	1 0	176	34·31	189
D† Marshfield (Llwynarthan)	F. G. Evans, Esq.	5	1 1	72 B	33·87	167
Caldicot Level (Porton)	Togarmah Rees, Esq. CE	5	1 3	27 T	27·63	133
D Portskewett (Sudbrook)	W. K. Laurence, Esq. CE	8	0 10	22 T	30·02	126
D ,, (Caldicot Hall)	Rev. E. T. Williams	9	1 3	40	30·49	132
Newport (Friar Street Yard)	The Meteor. Council	...	...	...	36·07	154
,, (Ynis-y-bro)	,, ,, ,,	5	1 0	115	27·68	141
Llanvair Discoed (Penhein)	Miss Micklethwait	5	0 9	488	37·91	...
D Chepstow (Mounton Road Res.)	F. Hammond, Esq.	5	1 0	312 ⅄	32·39	132
D ,, (Shirenewton Hall)	the late E. J. Lowe, FRS	8	1 0	531 T	38·73	181
D ,, (The Mount)	G. M. Smith, Esq.	5	1 0	150 T	32·30	146
D ,, (Piercefield Park)	H. Clay, Esq.	5	1 6	300	33·13	153
D ,, (Itton Court)	E. Curre, Esq.	8	4 6	390	39·04	179
D Llanfrechfa Grange	F. J. Mitchell, Esq.	5	4 0	326 ⅄	39·54	162
Tredunnock	Rev. C. T. Salusbury	5	2 3	170 ⅄	34·78	163
Abersychan (The Hawthorns)	J. W. Mulligan, Esq, MD	5	1 0	755 T	47·88	178
Bettws Newydd (Brynderwen)	the late Genl. Gillespie	5	1 3	150 T	38·47	...
D Tredegar (The Willows)	G. A. Brown, Esq.	8	1 0	1024 T	56·96	148
Blaenavon Gas Works	C. White, Esq.	5	0 9	980	53·48	...
D Monmouth (School House)	E. H. Culley, Esq.	5	1 4	76 T	31·89	172
D ,, (The Hendre)	Mr. Coomber	8	1 0	176 T	27·65	163
Abergavenny (Larchfield)	Dr. Glendinning	5	1 0	240 T	36·42	155
,, (Dyne House)	Dr. Steel	5	1 2	220 T	40·69	172
,, (,, ,,) M	,, ,,	5	1 1	220 T	39·22	...
D ,, (The Chain)	W. Baker Gabb, Esq.	5	1 0	250	42·77	175
Llantillio Pertholey	Mr. J. Winfield	...	...	...	39·44	...
D Llanvihangel Court	Col. Sturt	5	2 4	508 ⅄	36·71	172
,, ,, M	,, ,,	5	2 4	508 ⅄	38·25	...
D Monmouth (Pentwyn)	Rev. Canon Harding	5	1 0	191 B	29·50	151
GLAMORGAN.						
D Barry (Park Road)	J. Bell, Esq.	5	4 0	191 ⅄	33·56	154
Cowbridge (The Ham)	J. Nicholl, Esq.	9	2 0	96	32·50	147
* ,, (Fonmon Castle)	O. H. Jones, Esq.	8	1 2	130	36·89	143
D Barry W. W. (Biglis)	E. W. Waite, Esq., C.E.	5	1 0	20 T	29·01	152

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	GLAMORGAN—(*con.*)						
	Barry W.W. (Dynas Powis Res.)	E.W.Waite, Esq., C.E.	5	1 0	165 T	34·90	154
	Penarth (Cwrt-y-vil)	*Western Mail*	...	...	...	35·49	144
	Cardiff (Cogan Pill, Llandough)	C.H.Priestley, Esq.C.E.	5	1 0	122 ⅄	33·36	170
D	,, Castle	Mr. A. Pettigrew	5	1 0	38 ⅄	36·58	149
D	,, (Roath Park)	E. Walford, Esq., M.D.	5	0 4	50	32·70	142
D	,, (Ely)	C.H.Priestley, Esq.C.E.	5	1 0	53 ⅄	37·74	178
D	,, (Lisvane)	,, ,, ,,	5	1 0	150	32·10	161
	,, (New Filters, Heath)	,, ,, ,,	5	1 0	132	35·54	172
	,, (Llanishen Res.)	,, ,, ,,	5	1 0	155	35·34	163
	Cowbridge (Ash Hall)	E. Tudor Owen, Esq.	8	1 0	315 ⅄	39·67	178
D	Llantrisant (Talygarn)	G. L. Clark, Esq.	5	4 3	250	53·24	169
D	Oystermouth (Newton)	Rev. S. Jones	5	0 9	279 T	42·39	190
D	Port Talbot (Margam W.W.)	Mr. W. L. Harpur	5	1 0	530	44·92	176
	Gilfach Goch (Gilfach House)	W. W. Hood, Esq.	8	3 0	700 T	56·69	152
	Pontypridd (The Reservoir)	W. Jones, Esq.	5	1 0	300	55·11	152
	,, (Maesderwen, Graig)	T. Bowen, Esq.	5	10 0	425 T	45·03	172
D	Swansea (Le Mayals)	J. E. Stevens, Esq.	8	1 6	230 T	43·30	159
	,, (Killay House)	M. B. Williams, Esq.	5	0 6	265	39·12	122
	,, (The Knoll)	E. H. Perkins, Esq.	8	1 0	150 T	41·25	177
D	,, (St. James' Gardens)	T. T. Wood, Esq.	5	1 6	141 ⅄	42·83	182
	,, (Uplands Crescent)	*Western Mail*	5	1 0	132 T	41·22	175
	Llwynypia (Glyncornel)	W. W. Hood, Esq.	10	3 0	500 T	74·68	165
	Briton Ferry	H. A. Clarke, Esq.	5	1 0	33 ⅄	42·60	162
	Morriston (Glanravon)	J. Naysmith, Esq.	5	1 0	53 ⅄	42·80	159
D	Neath	E.C. Pole, Esq.	5	1 0	204 ⅄	41·77	179
D	,, (Fairy Land)	Major Green	5	1 9	170 ⅄	40·27	182
D†	Glyncorrwg	T. F. Brown, Esq., C.E.	5	4 6	717 B	72·98	180
	Cwmaman	W. J. Heppell, Esq.	5	2 3	740 T	48·58	150
D	Rhondda (Pont Lluest WenCott.)	W. Jones, Esq.	5	1 0	1255	50·93	173
D	Mountain Ash (Maesydderwen)	M. Morgan, Esq.	5	1 0	483 ⅄	53·05	161
D	,, ,, (Darranlas Res.)	J. Williams, Esq.	5	1 0	552	57·28	165
D	,, ,, (Clydach Res.)	,, ,, ,,	5	1 0	937	67·58	166
D	Treherbert (Bute Colliery)	Sir W. T. Lewis, Bt.	5	1 0	670	69·73	153
D†	,, (Tyn-y-waun)	O. Thomas, Esq.	5	1 0	800	72·12	186
†	,, (,,) ....M	,, ,, ,,	5	1 0	800	74·05	...
D	Gorseinon (Penllergaer)	Sir J.T.D.Llewelyn, Bt.	5	3 0	240 T	42·54	158
D	Aberdare (The Mardy)	Sir W. T. Lewis, Bt.	5	2 0	431 ⅄	55·68	168
D†	,, (Abernant)	Evan Jones, Esq.	5	4 6	430	55·28	140
D	Felindre (Lliw Reservoir)	R. H.Wyrill, Esq., C.E.	8	1 3	426 T	45·24	199
	Merthyr (Pentrebach)	W. W. Hood, Esq.	5	1 0	488 T	56·47	136
D	Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1 9	1035 ⅄	52·45	168
D	Ystalyfera (Wern Schools)	Mr. J. Williams	5	1 3	240 T	57·71	191
D	,, (Tanyrallt)	Miss H. A. Lewis	8	1 6	300 T	58·68	196
	CARMARTHEN.						
	Llanelly (Old Market Place)	G. Watkeys, Esq., C.E.	5	10 0	35 T	38·65	168
D	,, (New Road)	J. F. Young, Esq.	5	0 8	53 T	32·22	162
D	,, (Cwmlliedi W.W.)	G. Watkeys, Esq., C.E.	5	3 0	240 ⅄	42·81	192
D	Carmarthen (The Friary)	L.M.Bowen-Jones, Esq.	5	1 5	62 T	41·83	182

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground. ft.	in.	Rain Gauge. Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
CARMARTHEN—(*con.*)							
Llandilo (Dynevor Castle)	Rt. Hon. Lord Dynevor	8	1	0	202 T	48·98	188
D Llandovery	J. Watkins, Esq.	5	1	0	217 T	44·68	205
D ,, (Tonn)	F. H. Perkins, Esq. ...	5	1	5	230 T	43·82	182
D Llanwrda (Dolaucothy)	Gen. Sir J H Johnes, G C B	5	2	0	496 T	54·21	191
Llandovery (Neuaddfawr)	R. Campbell Davys, Esq.	5	1	0	400 T	72·40	112
PEMBROKE.							
Pembroke (Stackpole Court)	Rt. Hon. Earl of Cawdor	6	1	6	60 ⅄	39·48	179
St. Ann's Head	The Meteor. Council ...	8	0	8	150	34·99	171
D Haverfordwest (High Street) ...	E. P. Phillips, Esq. ...	5	1	0	95 T	42·06	170
D Clarbeston (Penty Park)	Capt. F. Lloyd Philipps	...	...		320	40·59	140
D Solva	W. H. Hillyer, Esq. ...	5	2	0	141 ⅄	36·25	207
D St. David's	Dr. W. P. Propert	5	1	0	216	33·39	178
D Llanrhian Vicarage	Rev. Prebendary Lewis	5	1	0	295 T	38·40	183
D Castle Malgwyn [Llechryd]	Mr. Baldwin	5	1	0	...	43·31	170
CARDIGAN.							
D Strata Florida (Hafod)	T. J. Waddingham, Esq	5	1	0	580 T	50·05	187
Aberystwith (Castle Grounds) ...	A. Thomas, Esq.	8	1	0	59	27·90	175
,, (N. Parade)	,, ,, ...	8	1	0	18	35·40	175
D ,, (Gogerddan)	Sir Pryse Pryse, Bart..	5	1	0	80 B	44·41	150
BRECKNOCK.							
D† Nanthir Reservoir [Aberdare] ...	O. Williams, Esq., C.E.	5	1	0	860 ⅄	58·72	218
,, ,, [,,] M	,, ,, ,, ...	5	1	0	860 ⅄	59·22	...
Colbren (Penwyllt)	*Western Mail*	5	1	0	1108 T	61·70	...
Ebbw Vale Waterworks	T. J. Thomas, Esq., C.E.	5	1	0	1413 ⅄	54·52	211
D† Taff Fechan (Pentwyn Res.) ...	T. F. Harvey, Esq., C.E.	5	1	0	1120	61·30	188
† ,, ,, (,, ,,) ... M	,, ,, ,, ...	5	1	0	1120	61·43	...
† Cardiff W W (Cwm Taff Fawr No 5)	C. H. Priestley, Esq. C.E.	5	1	0	1143 ⅄	61·98	...
,, ,, (Storey Arms)	,, ,, ,, ...	5	1	0	...	64·98	...
† ,, ,, (Cwm Taff Fawr No 1) M	,, ,, ,, ...	5	1	0	2350 T	66·01	...
,, ,, (Cantreff Res.)	,, ,, ,, ...	5	1	0	1120	65·48	183
,, ,, (Beacons Res., No. 6)	,, ,, ,, ...	5	1	0	1328 ⅄	68·36	186
,, ,, (Nant Penig)	,, ,, ,, ...	5	1	0	...	74·87	...
D† Taff Fechan (Neuadd Res.) No. 1	T. F. Harvey, Esq., C.E.	5	1	0	1462	64·60	189
† ,, ,, (,, ,,) No. 1 M	,, ,, ,, ...	5	1	0	1462	64·20	...
D ,, ,, (,, ,,) No. 4	,, ,, ,, ...	5	1	0	1487	73·12	189
,, ,, (,, ,,) No. 2 M	,, ,, ,, ...	5	1	0	1993	73·26	...
,, ,, (,, ,,) No. 5 M	,, ,, ,, ...	5	1	0	1515	74·18	...
,, ,, (,, ,,) No. 7 M	,, ,, ,, ...	5	1	0	2017	70·14	...
,, ,, (,, ,,) No. 8 M	,, ,, ,, ...	5	1	0	1723	74·45	...
,, ,, (,, ,,) No. 3 M	,, ,, ,, ...	5	1	0	1843	53·23	...
,, ,, (,, ,,) No. 9 M	,, ,, ,, ...	5	1	0	1997	53·13	...
,, ,, (,, ,,) No. 6 M	,, ,, ,, ...	5	1	0	2099	79·24	...
Crickhowell (Glanusk Park)	Sir J. R. Bailey, Bt. ...	5	1	0	290	44·57	165
,, (Gwernvale)	E. Pirie Gordon, Esq...	5	1	0	393 ⅄	40·92	149
,, (Penmyarth)	S. H. Cowper Coles, Esq.	5	1	0	330	44·09	180
Talybont (Cui)	H. Jones Williams, Esq.	5	1	0	490 T	45·91	..

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
BRECKNOCK—(*con.*)							
†Cantreff Rectory ..... *old g.*	Rev. J. J. Evans	5	1	0	630 T	48·61	148
,, ,, ...*new g.*	,, ,, ,, ...	5	1	0	630 T	48·23	148
D Llanfrynach (Tymawr).....	Major R. D. G. Williams	5	1	0	450 T	44·53	167
D† Brecknock (The Barracks)	Colonel Browne	5	5	0	447 T	38·25	151
D† ,, (Llandefaelog-fach)No.1	Rev. W. Williams.....	5	1	0	660 T	39·50	183
D ,, (,, ,,)No.2	,, ,, ,, ...	5	1	0	660 T	40·13	183
D ,, (,, ,,)No.3	,, ,, ,, ...	5	1	0	660 T	39·54	181
Hay (Gwernyfed Park).....	Major Wood	5	1	0	375 ⊼	30·01	167
Llanwrtyd Wells (Dolecoed) ...	R. Campbell Davys, Esq.	5	1	0	700 T	56·36	169
D Llangammarch Wells	Dr. W. Black Jones ...	8	1	0	551 ⊼	46·78	179
D Builth (Tyn-y-berllan).....	Dr. Baldock Fry	5	1	0	430 T	36·32	169
D† Abergwesyn Vicarage	Rev. J. Jones.....	5	1	0	904 ⊼	69·27	199
Brynwern Hall [Newbridge] ...	Rev. W. Clifton Mogg.	5	1	6	520 T	37·01	159
Llysdinam [,,] ...	Mrs. Lister Venables...	5	1	3	640 T	40·06	181
RADNOR.							
Woodlands [Glasbury].....	A. Battiscombe, Esq....	5	3	0	300 T	33·20	174
D Welfield [Builth]	E. A. Thomas, Esq. ...	5	1	10	740 T	35·35	150
D Caerwnon [Builth]	Com. A. Evan-Thomas.	5	1	0	530 T	35·82	182
Disserth Rectory	The Meteor. Council ...	5	1	0	712	40·59	177
D New Radnor (Ednol).....	Mr. W. Jones.....	5	1	0	950	44·05	185
Llandegley (Gwern-i-Arglwydd)	Mr. J. Campbell	5	2	0	1000	36·86	165
D Pen-y-bont.....	Mr. J. Hamer.....	5	3	6	788	35·20	168
†Rhayader (Nant-y-car) ..... M	G. M. Yourdi, Esq., CE	5	1	0	1545	78·35	...
D ,, (Tyrmynydd)	,, ,, ,, ...	5	1	0	832 ⊼	63·77	195
D† ,, (Nantgwillt) ...*old g.*	,, ,, ,, ...	5	1	0	768 ⊼	61·50	190
D† ,, (,,)...*new g.*	,, ,, ,, ...	5	1	0	764 ⊼	64·55	189
† ,, (Bwlchyrhendre) ...M	,, ,, ,, ...	5	1	0	1585	57·40	...
D† ,, (Claerwen)	,, ,, ,, ...	5	1	0	1250	60·95	172
† ,, (Pryddellau) ..... M	,, ,, ,, ...	5	1	0	1710	62·35	...
Knighton	Dr. T. W. Graves	5	1	2	670	35·57	...
,, (Ystrad House).....	E. P. Fairbairn, Esq. C.E.	5	1	0	570 T	35·98	...
Llanbadarn Fynydd (Pen Ithon)	G. A. Haig, Esq.	8	0	5	1130	46·19	...
MONTGOMERY.							
†Llangurig (Esgair Clochfan) M	late G. J. Symons, FRS	5	1	2	1330	52·00	...
† ,, (Ystrad-olwyn-fawr) ...M	,, ,, ,,	8	1	0	950	50·30	...
,, (,, ,, ,,)*new g.*	,, ,, ,,	5	1	0	950	50·20	...
Llandinam (Plas Dinam).....	The Meteor. Council ...	5	4	0	504 T	35·04	181
D Newtown (Dolfor).....	W. B. Pugh, Esq.....	5	2	6	1027	33·32	160
D† Churchstoke (Mellington Hall)..	P. Wright, Esq.	5	1	6	540 ⊼	31·96	158
† ,, (,, ,,)M	,, ,, ,, ...	5	1	6	540 ⊼	32·27	...
D Welshpool (Pool Quay Vic.).....	Rev. R. J. Roberts ...	5	1	0	230 ⊼	28·85	170
Llangadfan.....	late G. J. Symons, FRS	5	1	0	...	53·64	...
Garthbibio (Bwlch Tomlyd)...M	,, ,, ,,	5	1	0	1370 T	79·90	...
Meifod (Tan-y-fron)	A. George, Esq.	5	1	0	310	29·51	157
D Lake Vyrnwy.....	E. D. Marten, Esq. C.E.	5	0	7	770 ⊼	50·87	176

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which '01 or more fell.
			ft. in.	feet.	inches.	
FLINT.						
Caergwrle (Bryntirion)	Dr. W. A. Johnston	5	1 0	300 T	31·91	168
Hawarden	Gt. Central R. Co.	9	3 6	35	25·50	169
†Flint (Soughton Hall, Northop)	J. Eldon Bankes, Esq.	5	1 0	418	30·72	177
Bodfari (Henblas)	Mrs. Scott Bankes	5	1 0	283 ⅄	28·69	167
St. Asaph (Nantllys)	P. P. Pennant, Esq.	5	1 0	173 ⅄	26·34	156
Bagillt Lead Works	I. Roberts, Esq.	5	1 0	20	24·84	...
Rhyl (Sedgley House)	W. T. Girdlestone, Esq.	5	2 6	21 ⅄	23·67	159
D Prestatyn (Edlestone House)	T. J. Scott, Esq.	5	0 6	30	25·38	124
DENBIGH.						
D Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1094	38·04	143
Wrexham (Pack Saddle Res.)	F. Storr, Esq.	5	0 9	370 ⅄	30·22	179
,, (Cae Llwyd Res.)	,, ,,	8	0 9	918 ⅄	39·88	180
,, (,, ,, ,,)	,, ,,	5	0 9	918 ⅄	39·63	180
D ,, (Broughton)	J. Hall, Esq.	5	1 0	500 T	33·02	169
Gresford (Trewythen)	Miss Howell Evans	5	1 0	350	24·51	161
D Rosset (Trevalyn Hall)	Capt. Griffith Boscawen.	5	1 0	58 ⅄	25·65	163
Nantglyn (Pant-y-maen)	W. Barker, Esq.	8	1 0	1320 T	53·42	...
D Llangerniew (Hafodunos)	Col. Sandbach	5	1 0	512 T	47·52	152
Llanefydd (Rhyl W.W., S.) M	L. G. Hall, Esq., C.E.	5	1 0	600	29·93	...
,, (,, ,, W.) M	,, ,, ,,	5	1 0	580	29·68	...
,, (,, ,, E.) M	,, ,, ,,	5	1 0	570	24·92?	...
D ,, (Plas Uchaf Res.)	,, ,, ,,	5	1 0	485	29·43	128
D Denbigh (Ystrad)	Miss E. V. Hughes	5	0 10	250	30·37	192
,, (Llyn Bran, Bylchau)	W. Barker, Esq.	8	1 0	1428 ⅄	57·31	...
D ,, (Garn)	W. D. W. Griffith, Esq.	5	1 0	447 T	32·19	199
Trefnant (Maes Elwy)	Major Birch	5	2 0	170 ⅄	25·96	147
D Colwyn Bay (Ingleside)	Harold Smith, Esq.	8	1 0	75 ⅄	31·32	181
,, (Bryn Euryn)	Mr. T. Hutchings	5	1 0	125 T	30·87	166
MERIONETH.						
†Dolgelly (Werngoch)	Owen Hill, Esq.	5	1 6	465 T	48·36	...
,, (Dolmelynllyn)	The Meteor. Council	5	1 2	225	83·66	179
D Llanbedr (Minafon)	H. G. Hollingworth, Esq.	5	1 2	33 ⅄	41·74	181
D Bala (Eryl Arran)	Mrs. Burton	8	1 0	590 T	52·05	173
D Llanderfel (Palé Gardens)	Mr. T. Ruddy	8	1 0	606 ⅄	49·30	196
Arenig (Bodrennig)	E. Jones, Esq.	5	1 0	1100 T	62·86	155
D Rhiwbryfdir = Oakley Quarries	Mr. R. Roberts	5	10 0	1100	89·86	193
D Corwen (Rhug Gardens)	Mr. J. Bennett	5	1 0	500	39·34	202
CARNARVON.						
D*Llanystumdwy (Talarvor)	Dr. J. Roberts	5	2 0	49 T	34·72	138
D Llanllyfin (Rhydlydan)	E. Evans, Esq.	5	1 0	751 ⅄	68·36	189
Dolwyddelan, No. 1	J. R. Gethin Jones, Esq.	...	...	...	93·89	...
,, No. 2	,, ,, ,,	...	...	...	131·90	...
,, No. 5	,, ,, ,,	...	...	..	127·88	...
Llandwrog (Glynllivan Park)	Hon. F. G. Wynn	5	1 0	100	42·84	...
,, (,, Garden)	,, ,,	5	1 0	170	46·70	177

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
CARNARVON—(*con.*)						
Llandwrog (Glynllivan Garden).	Hon. F. G. Wynn	5	1 0	100	45·08	...
,, (,, Fort)	,, ,,	8	1 0	180	41·06	171
,, (Bodfean)	,, ,,	5	1 6	80	39·45	...
D Bettws-y-coed (Aberllyn).....	Mssrs Brunner Mond & Co	5	5 6	674 ⊼	50·99	154
Idwal Lake, South End, No. 6...	J.R. Gethin Jones, Esq.	...	...	...	110·86	...
,, ,, North End, No. 9...	,, ,, ,,	...	...	...	105·05	...
D Llanberis (Glyn Padarn)	Major Allen	6	6 0	370	66·64	165
Capel Curig (Lake Cowlyd)	T.B. Farrington Esq. CE	8	1 3	1168 ⊼	73·90	...
Carnarvon (Belan Fort).....	Hon. F. G. Wynn.....	5	1 0	15	34·85	...
Eigian Lake, No. 3	J. R. Gethin Jones, Esq.	...	...	...	107·18	...
,, ,, No 8	,, ,, ,,	...	...	...	107·65	...
D Llanbedr-y-Cennin (Plasdulyn).	E.P. Stephenson Esq. CE	8	1 0	509 ⊼	61·00	164
,, ,, ,, (Llyndulyn)	,, ,, ,,	8	1 6	1622 T	85·54	...
D Bangor (Glasinfryn).....	J.R. Gethin Jones, Esq.	5	1 0	200	45·73	161
D ,, (Penrhyn Castle)	Mr. W. Speed.....	6	1 0	150	39·57	185
D Llanfairfechan	Mr. W. Timmins	5	1 0	...	43·66	190
D† Llandudno	Mr. W. Little.....	5	1 0	90 T	32·42	174
ANGLESEA.						
Llandwyn Island	Hon. F. G. Wynn	5	1 0	40	23·33	...
D Llangadwaladr (Bodorgan)	Mr. W. Pilgrim.....	8	1 0	...	39·10	160
Llangristiolus (Lledwigan)	T. Winter, Esq.....	5	1 0	100	35·88	181
Penmynydd Vicarage	Rev. H. D. Owen	5	5 0	300	36·03	187
Holyhead	The Meteor. Council...	8	...	...	36·60	188
Llanerchymedd Llwydiarth Esgob	T. Prichard, Esq.	5	1 0	175 L	37·95	212
D Lligwy	Rt. Hon. Lord Boston..	5	1 0	180	39·99	138
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights	...	...	...	35·80	100
Derbyhaven	A. W. Moore, Esq.....	5	1 0	20	34·85	...
Santon Vicarage	,, ,, ,, ...	...	...	250	30·15?	155
D Douglas (Woodville).....	H. Story, Esq.	8	0 9	160 L	42·79	177
,, (Elsinore)	A. W. Moore, Esq. ...	...	...	...	44·41	176
,, (Cronkbourne)	,, ,, ,, ...	8	0 10	138 ⊼	43·77	176
,, (Clypse, Onchan)	,, ,, ,, ...	8	1 0	439 T	46·49	188
Bishops Court...	,, ,, ,, ...	...	...	80	37·51	...
Ramsey	,, ,, ,, ...	8	1 3	18	47·57	...
Point of Ayre.....	Bd. of Northern Lights	...	...	...	28·21	112
ISLES OF SCILLY.						
St. Mary's	The Meteor. Council ...	8	1 6	77 L	31·85	170
†Tresco Abbey	T. A. D. Smith, Esq...	11	3 0	40	33·32	170
JERSEY.						
D St. Helier (St. Louis Observatory)	Rev. M. Dechevrens ...	8	5 0	180	23·89	144
St. Aubins.....	The Meteor. Council ...	8	1 0	...	26·33	153

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	GUERNSEY.						
D	St. Martin's (Les Blanches)	B. T. Rowswell, Esq....	5	1 0	310 T	31·59	166
	L'Erée (Claire Mare)	J. J. Carey, Esq.	5	1 0	48 L	28·48	...
D	St. Peter Port (Beaulieu)	A. Collenette, Esq. ...	5	1 0	190 L	34·34	158
D	,, ,, (Villa Carey).....	Dr. Carey	8	1 2	180	30·30	166
	,, ,, (,, ,,)... M	,, ,, ...	5	1 2	180	29·58	...
D	L'Ancresse	A. Collenette, Esq.....	5	1 0	33 T	29·69	117

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground.	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	WIGTON.						
	Mull of Galloway	Bd. of Northern Lights	...	...	...	31·09	146
D	Whithorn (Cutroach)	J. G. Martin, Esq.	5	0 6	120 T	38·00	168
D	Garliestown (Galloway Ho.)	Mr. J. Day	5	4 6	20 ?	41·10	163
D	Stoneykirk (Ardwell House)	Sir M.J.Stewart,Bt.MP	8	3 9	107 T	36·31	160
	Loch Ryan	Bd. of Northern Lights	...	...	...	30·37	141
	Corsewall	,, ,, ,,	...	3 4	22 ?	35·07	168
	KIRKCUDBRIGHT.						
	Little Ross	Bd. of Northern Lights	...	3 3	130 ?	29·01	122
D	Kirkcudbright (Senwick)	A. J. Corrie, Esq.	5	1 0	113 M	41·61	191
	,, (,,) M	,, ,, ,,	5	1 0	113 M	41·31	...
	Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	50	48·80	...
	Dalbeattie (Colvend Manse)	Rev. Dr. Fraser	5	1 6	120 T	38·69	...
	Gatehouse (Cally)	Dr. Buchan, F.R.S.	5	1 0	120	54·33	185
	Dalbeattie (Little Richorn)	Mr. W. Kerr	5	0 6	35 L	46·25	184
D	,, (Munches)	Miss Maxwell	5	1 0	30	49·95	198
	Creetown (Cassencary)	J.A Henryson-Caird, Esq	5	0 8	40	45·88	...
D	Kirkpatrick Durham (Glenlair)	Major Maxwell	5	0 8	250 T	50·79	138
D	Cargen [Dumfries]	R. F. Dudgeon, Esq.	5	1 0	80 M	49·23	137
D	New Galloway (Glenlee)	Mr. W. Melville	5	1 3	208	59·84	218
D	Dalry (Glendarroch)	Miss Barbour	5	0 11	192 T	57·87	180
D	,, (The Old Garroch)	T. R. Bruce, Esq.	8	6 0	450	59·94	207
	Irongray (Drum Park) ...*new g.*	D. J. Kay, Esq.	5	1 0	230	55·51	...
	Glenhead of Trool	Mr. J. McMillan	5	0 11	320	71·18	...
	Carsphairn(Holm of Dalquhairn)	Miss McMillan	5	1 2	900	53·80	...
	DUMFRIES.						
D	Dumfries (Ivy Bank)	Rev. W. Andson	8	0 10	70 T	40·86	189
	Canonbie (Byreburnfoot)	Mr. D. Crabbe	3	...	...	42·13	...
	Langholm (Westwater)	J. M. Elliot, Esq.	3	0 9	450	51·37	...
D	,, (Drove Road)	Mr. W. Jackson	5	0 9	270	54·11	170
	Moniaive (Glencrosh)	Miss McMillan	5	1 2	350	59·32	216

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea Level feet.	Depth of Rain 1899 inches.	Days on which ·01 or more fell
	DUMFRIES—(*con.*)							
D	Moniaive (Maxwelton House) ...	Rev. Sir E. Laurie, Bt.	8	1	2	400 R	53·19	218
	Langholm (Ewes School)	Mr. J. C. Lyall	3	1	0	445 T	56·14	...
	,, (,, Burnfoot)	J. C. Little, Esq.	3	1	0	541 R	59·15	...
	Durrisdeer(DrumlanrigGardens)	Mr. D. Inglis	9	0	9	191	52·24	...
	Moffat (Craigielands).....	Mr. L. Frazer.....	5	0	9	360 T	55·45	...
D	,, (Auchen Castle).....	Mr. W. McAdam	5	0	6	500	62·18	236
	,, (Ericstane).....	J. J. Welsh, Esq.	3	0	6	580 T	57·50	...
	,, (,,)..... *Snowdon*	,, ,, ,, ...	5	1	6	580 T	58·12	...
	ROXBURGH.							
	Hawick (Wolfelee)	Dr. Buchan, F.R.S. ...	..	0	6	601	40·38	145
D	,, (Branxholme)	J. G. Winning, Esq.....	5	0	6	457 R	37·11	159
	,, (Ladylaw)	T. Wilson, Esq.....	5	0	10	448 T	28·96	146
D	Jedburgh (Anerum Bridge).....	A. Johnston, Esq.	5	2	0	229	32·85?	182
D	Lilliesleaf (Riddell)	Gen. Sprot	5	0	8	550 T	31·64	196
D	,, (,,)	Mr. J. Williamson.....	5	0	8	500 T	32·52	168
D	St. Boswell's (Elliston).....	The Hon. G. Dalrymple	5	1	0	352	29·20	180
	Kelso (Springwood Park)	Mr. W. Chaplin.....	10	1	0	130 L	23·40	148
	,, (Broomlands)	Dr. Buchan, F.R.S. ...	...	...		205	27·88	...
D	Melrose (Asylum).....*old g.*	Mr. Pattman	5	0	6	480 T	31·05	196
D	,, (,,) .....*new g.*	,, ,, ...	5	1	0	480 T	30·65	196
D	Wooplaw [Galashiels]	J. Murray, Esq.....	5	1	0	880 R	30·75	178

DIVISION XIII.—SOUTH EASTERN COUNTIES.

	SELKIRK.							
D	Selkirk (The Hangingshaw) ...	Miss Johnstone	5	0	6	670 T	35·66	156
	Galashiels (Abbotsford Rd.).....	Dr. Somerville	5	0	6	416 T	29·52	190
	,, (Stantling Craigs) ...	Mr. W. Ross	12	1	3	800	31·28	...
	PEEBLES.							
	Innerleithen (The Glen)	Dr. Buchan, F.R.S. ...	...	...		...	34·90	...
	,, (Leithen Lodge) ...	Mr. D. Clark	11	0	0	700 T	38·92	...
	Stobo Castle	Dr. Buchan, F.R.S. ...	...	...		600	31·90	165
	Peebles (Swinton Bank)	C. A. Ainslie, Esq.....	5	0	6	600	33·10	...
	Kirkurd (Castle Craig).....	Dr. Buchan, F.R.S. ...	...	...		830	33·69	..
	Eddlestone (Portmore Res.)	W. Anderson, Esq.....	11	0	6	1000	33·89	180
	N. Esk Reservoir [Penicuick] ...	Mr. W. Tod	11	0	6	1150 R	43·25	...
	BERWICK.							
D	Earlston (Cowdenknowes)	Mr. J. Robertson	5	0	10	360	28·03	179
D	Coldstream (The Hirsel)...*new g.*	Mr. Cairns	5	1	0	94 R	28·32	196
D	Marchmont House	Mr. J. A. Wood.....	5	1	0	500 T	32·63	179
D	Dunse Castle	Mr. R. Aikman	5	1	0	500	32·99	151
	West Foulden	H. H. Craw, Esq.	5	1	0	250 T	25·70	...

DIVISION XIII.—SOUTH EASTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	BERWICK—(*con.*)						
	Longformacus (Rawburn)	H. H. Craw, Esq.	3	1 0	920 T	31·90	...
	St. Abb's Head	Bd. of Northern Lights	...	0 4	211	28·08	137
	HADDINGTON.						
	Garvald (Donolly Reservoir)	Mr. J. McKellar	11	1 6	560 R	29·54	...
D	Drummore [Musselburgh]	Mr. J. Robson	5	0 8	75 T	26·09	172
D	Whittinghame Gardens	Mr. J. Garrett	5	1 0	348 B	28·08	149
D	Haddington (Asylum)	J. Mowat, Esq.	5	1 0	237 T	28·24	199
	Prestonkirk (Smeaton)	Dr. Buchan, F.R.S.	...	...	100	27·28	136
	Aberlady	,, ,, ,,	...	...	...	26·06	...
	North Berwick Reservoir	Mr. J. McKellar	11	1 6	150 T	29·39	...
	,, ,, (Fidra)	Bd. of Northern Lights	...	...	...	27·45	...
	EDINBURGH.						
	Stow (Burnhouse)	W. R. Ovens, Esq.	5	0 6	700	33·75	...
	Moorfoot Hills (Bowbate)	W. Anderson, Esq.	11	0 6	2042	44·10	...
	,, ,, (Gladhouse Res.)	,, ,, ,,	11	0 6	900	34·88	192
	,, ,, (Rosebery)	,, ,, ,,	11	0 6	750	28·27	...
	Pentland Hills (Crosswood)	,, ,, ,,	11	0 6	950	42·32	...
	Penicuick (Edgelaw Res.)	,, ,, ,,	11	0 6	654	28·13	...
	Pentland Hills (Harper rig)	,, ,, ,,	11	0 6	900	42·00	...
	,, ,, (Harehill)	,, ,, ,,	11	0 6	1470	44·42	...
	,, ,, (Loganlea)	,, ,, ,,	11	0 6	850	41·00	...
	West Calder (Addiewell)	J. Fyfe, Esq.	5	0 6	600	37·25	...
	Rosewell Asylum	Dr. Buchan, F.R.S.	...	...	690	32·89	194
	Pentland Hills (Swanston)	W. Anderson, Esq.	11	0 6	550	32·68	...
	,, ,, (Glencorse Res.)	,, ,, ,,	11	0 6	787	40·70	160
	,, ,, (Harlaw)	,, ,, ,,	11	0 6	800	35·48	...
	,, ,, (Clubbiedean Res)	,, ,, ,,	11	0 6	750	35·94	...
	,, ,, (Harbour Hill)	,, ,, ,,	11	0 6	1112	48·09	...
D	Dalmahoy	Countess D. of Morton	5	0 10	358	35·25	157
	Liberton (Alnwick Hill)	W Anderson, Esq.	11	0 6	400	31·21	167
D	,, (R. Obs. Blackford Hill)	Dr. Copeland	8	1 0	442 R	25·57	145
	,, (,, ,, ,, ,,)	,, ,,	5	25 0	460	15·51	...
D	Edinburgh (Blacket Place)	R. C. Mossman, Esq.	5	0 8	252 T	30·13	178
D	,, (City Observatory)	W. Peck, Esq.	8	0 10	349	26·86	154
D	,, (Royal Botanic Garden)	Mr. A. D. Richardson.	8	1 0	74 R	28·62	187
	Leith	The Meteor. Council	8	1 8	22	24·79	167
	,, (Navigation School)	Dr. Buchan, F.R.S.	5	0 5	50	28·79	180
D	Davidson's Mains (Broomfield)	Mr. Comfort	5	0 10	42 L	26·60	140
	LINLITHGOW.						
D	Whitburn (Polkemmet)	Lady Baillie	5	1 0	600 T	47·55	211
	Carribber Reservoir M	J. Bawne, Esq.	5	0 7	330 T	39·40	...
D	Linlithgow (Nether Parkley)	W. H. Henderson, Esq.	5	0 3	290 T	39·52	179
	,, (,, ,,) M	,, ,, ,,	3	...	290 T	36·00	...

DIVISION XIV.—SOUTH WESTERN COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	LANARK.							
D	Biggar (Cambus Wallace)	Captain Paul	6	0	6	748 ⅄	30·14	164
D	Cleghorn	W. Eliott Lockhart, Esq.	3	0	3	720	40·22	191
D	Carluke (Mauldslie Castle)	Mr. W. H. Gorrie	5	1	0	140	34·79	173
D	Dalzell House	Mr. Angus	6	5	6	89 T	33·25	162
	Hamilton Water Works	Mr. R. Watson	7	1	0	436 T	36·80	...
D	,, (Ardenclutha)	Rev. T. M. B. Paterson	5	1	9	260 T	39·55	177
	Bothwell Castle	Mr. W. F. B. Archibald	10	18	0	146 T	34·21	156
	Uddingston (View Park)	J. Addie, Esq.	5	1	6	180	35·80	...
	Glasgow (Tollcross Park)	J. Whitton, Esq.	...	...		85	41·77	...
	,, (Green Park)	,, ,, ,,	5	0	6	35	41·95	...
	,, (Bellahouston Park)	,, ,, ,,	...	...		160	38·92	...
	,, (Alexandra Park)	,, ,, ,,	5	0	6	141	39·56	...
	,, (George Square)	,, ,, ,,	...	...		40	44·13	...
	,, (Kelvin Grove Park)	,, ,, ,,	5	0	6	48	40·54	...
	,, (Belvedere Hospital)	Dr. Buchan, F.R.S.	...	...		54	40·46	187
	,, Observatory	Prof. Becker	11	2	0	182	43·17	204
	,, (Springburn Park)	J. Whitton, Esq.	5	0	6	361	38·86	...
D	Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4	6	620 ⅄	40·55	184
	AYR.							
	Ballantrae (Glendrishaig)	P. Murdoch, Esq.	5	1	0	42	37·41	175
	Barrhill (Dochroyle) M	Mr. J. Scott	6	0	6	548 T	54·91	...
D	Colmonell (Clachanton)	R. Aitken, Esq.	6	0	6	140 T	46·65	192
D	Girvan (Pinmore)	Capt. Hamilton	5	1	0	187 ⅄	49·45	216
D	Barr Manse	Rev. G. Dods	5	1	0	330	48·08	211
	Girvan (Glendoune Gardens)	Mr. J. Simons	5	1	0	200 T	40·40	137
	Loch Finlas	J. Young, Esq.	5	2	0	849	52·50	...
	Girvan (Turnberry)	Bd. of Northern Lights	...	...		...	40·20	147
D	Dalmellington (Benquhat)	A. Gillespie, Esq.	...	1	6	1068	45·57	206
D	Maybole (Culzean Gardens)	Mr. D. Murray	9	3	0	200	38·90	174
D	,, (Sauchrie)	E. A. Miller, Esq.	5	1	0	382 T	47·43	203
	Ayr (Doonholm)	J. Kennedy, Esq.	5	1	0	90	39·59	...
	Muirkirk (Glenbuck)	Mr. W. F. Hamilton	6	1	0	900	43·45	...
	Kilmarnock (North Craig)	R. Blackwood, Esq.	12	1	0	319 ⅄	47·05	...
	Paisley W. W. (Camphill)	J. Lee, Esq.	12	1	6	611	72·76	...
	Shaws W. Works (Kelly Dam)	D. Macalister, Esq.	6	1	0	640 ?	59·20	...
	,, ,, (Knockencorsan)	,, ,, ,,	6	1	0	1040	60·10	...
	RENFREW.							
	Lochwinnoch (Garthland)	H. Macdowall, Esq.	5	0	11	150	71·62	180
	,, (Castlesemple)	Mr. C. Jamieson	...	...		240	46·71	190
Gorbals's Dist.	Ryat Lynn	J. M. Gale, Esq., C.E.	8	0	5	310	51·15	...
	Waulk Glen	,, ,, ,,	12	0	5	280	49·55	...
	Middleton	,, ,, ,,	12	0	5	550	64·00	...
	Nether Cairn	,, ,, ,,	12	0	5	700	55·50	...

DIVISION XIV.—SOUTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	RENFREW—(*con.*)						
Paisley W. Works	Stanely ...	J. Lee, Esq.	12	1 0	190	45·76	...
	Back Thornleymuir	,, ,,	12	1 0	646	56·69	...
	Muirhead	,, ,,	12	1 0	482 ⊼	54·24	...
	Springside	,, ,,	12	1 0	532 ⊼	56·80	...
D	Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 ⊼	41·66	171
	,, (Maxwell Park)	,, ,, ,,	5	0 6	69	45·37	...
	Paisley (Crookston)	Major Hotchkis	3	0 5	...	39·95	132
Shaws Water Works.	Duchall Moor	D. Macalister, Esq., C.E.	6	1 0	1150	71·80	...
	Creuch Hill	,, ,, ,,	6	1 0	1100	63·90	...
	Largs Road	,, ,, ,,	5	1 0	910	58·82	...
	Green Water	,, ,, ,,	6	1 0	788 ⊼	68·90	...
	Gryfe Reservoir	,, ,, ,,	6	1 0	640 ⊼	68·10	184
	Mansfield	,, ,, ,,	5	1 0	573 ⊼	65·62	243
	Compensation Reservoir	,, ,, ,,	5	1 0	600	56·18	249
	Loch Thom	,, ,, ,,	5	1 0	643 ⊼	61·10	249
	Shielhill	,, ,, ,,	6	1 0	962 ⊼	60·60	...
	Darndaff Moor	,, ,, ,,	6	1 0	850	67·70	...
	Spango Burn	,, ,, ,,	6	0 9	757 ⊼	60·50	...
	Hole Glen	,, ,, ,,	5	1 0	603	60·01	248
	New Yetts Dam	,, ,, ,,	5	1 0	800	65·21	248
D	Prospect Hill	,, ,, ,,	5	1 0	233	62·09	212

DIVISION XV.—WEST MIDLAND COUNTIES.

	DUMBARTON.						
D	Dumbarton (Leven Shipyard)	Messrs. Denny, Bros.	5	1 0	9 ⊺	49·60	228
	Kirkintilloch (Newdyke)	Col. J. S. Stirling	...	...	...	46·10	...
D	Helensburgh (Fernigair)	J. R. Wilson, Esq.	...	0 6	18	44·23	202
D	,, (Water Works)	,, ,, ,,	...	0 6	300	45·76	202
	Arrochar	Rev. J. Dewar	5	0 9	12	63·25	...
	STIRLING.						
	Strathblane (Mugdock Reservoir)	J. M. Gale, Esq., C.E.	8	0 6	320	51·05	...
D	,, (Craigend Castle)	Sir J. Buchanan, Bart.	5	0 9	543 ⊺	60·84	227
	Banton by Bonnybridge Craigdouffie	the late J. J. Cadell, Esq.	5	0 6	715	55·10	...
	,, Brickworks	,, ,, ,,	5	0 6	277	51·07	...
	Falkirk (Kerse)	C. Brown, Esq.	8	1 0	18 ⊼	38·00	...
	,, (,,) ...*new g.*	,, ,,	5	0 10	18 ⊼	38·00	...
	Larbert (Carron Park)	the late J. J. Cadell, Esq.	5	0 6	80	37·48	...
	Little Denny Reservoir	C. Massie, Esq.	8	2 0	315 ⊼	37·55	...
	,, ,, Filters	,, ,,	8	2 0	240	40·14	...
	Earlsburn Reservoir	,, ,,	8	2 0	1205 ⊼	57·72	...
	St. Ninians (Faughlin)	,, ,,	8	2 0	713 ⊼	46·23	...
	Stirling (Touch Reservoir)	Col. J. S. Stirling	...	...	760	48·50	...
	,, (Polmaise Gardens)	Mr. W. W. Ritchie	6	1 3	12	42·32	...
	,, (Victoria Place)	R. Kidston, Esq.	5	2 10	100	47·66	...
D	Buchlyvie (The Manse)	Rev. J. A. Macdonald	5	1 3	118 ⊺	56·60	235

DIVISION XV.—WEST MIDLAND COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain 1899	Days on which .01 or more fell.
				ft. in.	feet.	inches.	
	STIRLING—(*con.*)						
	Gargunnock	Col. J. S. Stirling	5	5 8	85 T	48·31	...
	Kippen (Arngomery)	,, ,, ,,	...	...	...	52·63	...
	,, (Garden House)	,, ,, ,,	...	...	...	46·59?	...
	Ben Lomond	J. M. Gale, Esq, C.E.	...	...	1800	105·50	...
	Glengyle	,, ,, ,,	...	...	380	106·20	...
	BUTE.						
	Arran (Pladda)	Bd. of Northern Lights	...	...	...	49·98	144
	Holy Island (Lamlash)	,, ,, ,,	...	...	...	54·20	141
D	Rothesay (Barone Cottage)	J. Kay, Esq.	5	1 0	116 ⅄	52·73	215
D	,, (Crichton Road)	H. Lauder, Esq.	5	4 0	97	55·14	226
	ARGYLL—(MAINLAND.)						
D	Tighnabruaich	A. S. Cousland, Esq.	5	4 0	30 B	56·10	197
D	,,	,, ,, ,,	12	5 0	50 B	59·84	197
D	Loch Eck (Benmore)	H. J. Younger, Esq.	5	1 0	40	89·79	219
D	Lochgilphead (Poltalloch)	Mr. D. S. Melville	3	4 6	135	52·65	202
	,, (,,) M	,, ,, ,,	8	0 6	135	49·80	...
D	Inverary Castle	Mr. G. Taylor	5	1 0	40	77·30	233
D	,, (Newtown)	Mrs. Little	5	1 0	17	71·18	235
	Oban (Loch-na-gleann-na-brathrach)	Dr. Baily	11	1 2	370	54·35	...
	,, (The Corran)	,, ,,	5	1 0	20	58·16	222
	Appin (Airds)	Dr. Buchan, F.R.S.	5	0 11	41 ⅄	54·81	122
D	Morvern (Drimnin)	Mrs. Gordon	5	1 0	225	66·69	250
D	Ballachulish (Ardsheal)	Dr. W. D. Anderson	8	1 0	103 T	73·29	224
	,, (Craigrannoch)	D. Campbell, Esq., M.D.	8	1 0	15	79·04	227
D	Strontian (Laudale)	A. Fletcher, Esq.	8	1 0	15 ⅄	66·00	258
	Loch Sunart (Glenborrodale)	C. D. Rudd, Esq.	5	0 2	60 L	61·44	198
	Ardnamurchan	Bd. of Northern Lights	...	3 6	28 ?	48·53	200
	Ardgour	Mr. A. Boyd	3	0 10	72	54·38	...
	Loch Eil (Corran)	Bd. of Northern Lights	...	0 4	14 ?	62·35	209
	ARGYLL—(INSULAR.)						
	Kintyre, Mull of	Bd. of Northern Lights	...	...	279 ?	51·38	171
	,, (Campbeltown, Devaar)	,, ,, ,,	...	3 4	75 ?	54·55	193
	,, (Skipness Castle)	Mr. P. McLean	5	1 6	27	49·76	...
	,, (Stonefield, Tarbert)	Colin G. Campbell, Esq	5	0 9	90	77·58	228
	Gigha	A. Hugh Douglas, Esq.	5	1 6	40	41·47	226
D	Islay (Ardbeg)	C. Hay, Esq.	5	7 0	46 T	50·03	143
	,, (Rhinns)	Bd. of Northern Lights	...	3 0	74 ?	36·95	144
	,, (Lochindaul)	,, ,,	...	...	...	44·52	165
	,, (McArthurshead)	,, ,,	...	...	...	48·91	222
D	,, (Eallabus)	J. Laughton, Esq.	5	1 0	68 T	48·67	207
	Jura (Bay of Small Isles)	H. Evans, Esq.	...	...	80	69·60	...
	,, (Fladda)	Bd. of Northern Lights	...	...	...	76·28	197
	,, (Ardfin)	Miss J. H. Campbell	5	0 6	130	51·77	...
	Lismore (Mousedale)	Bd. of Northern Lights	...	3 4	37 ?	48·74	184
	Mull (Lochbuie)	Dr. Buchan, F.R.S.	...	...	20	93·35	...
D	,, (Quinish)	J. N. Forsyth, Esq.	5	1 6	35	57·93	237
	,, (Sound of)	Bd. of Northern Lights	...	...	...	71·73	201

DIVISION XVI.—EAST MIDLAND COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	CLACKMANNAN.						
	Alloa (Mar Street)	J. Melville, Esq.	5	0 6	70	37·66	...
	Alva House	Miss Johnston	5	1 2	180	41·10	...
D	Dollar	Mr. A. Blackwood	9	1 0	178	45·00	159
	KINROSS.						
	Blairingone [Dollar]	Rev. J. F. Cameron	5	1 6	300 T	43·92	188
	Cleish Castle	Dr. Buchan, F.R.S.	...	...	...	36·89	...
	Loch Leven Sluice	Mr. Hay	7	0 7	360 L	40·80	...
D	Kinross (Gellybank)	G. Henderson, Esq.	5	0 6	440 ⅄	37·13	196
	FIFE.						
	Inchkeith	Bd. of Northern Lights	...	...	...	33·26	116
D	Culross (Westgrange)	J. J. Dalgleish, Esq.	5	0 2	116 ⅄	37·81	170
D	Dunfermline (Keavil)	L. Dalgleish, Esq.	5	0 2	150	29·52	162
	Carnock (Luscar House) ...No. 1	A. Mitchell, Esq.	5	0 10	430 T	37·06	...
	,, (,, ,,) ...No. 2	,, ,,	5	0 10	430 T	37·13	...
	,, (Craigluscar)	A. W. Bell, Esq., C.E.	12	0 4	280 ⅄	38·06	...
D	Beath (Outh)	L. Dalgleish, Esq.	5	0 2	890	39·15	105
	Isle of May	Bd. of Northern Lights	...	...	...	22·51	...
	Kilconquhar (Balcarres)	Mr. E. Tate	5	1 0	300 T	37·61	187
D	Carnbee (Ovenstone W.W.)	A. Watson, Esq.	5	1 0	168 T	29·95	160
	Leslie (Lothrie Reservoir)	Dr. Buchan, F.R.S.	...	...	...	42·07	...
	Strathmiglo	F. Troup, Esq., M.D.	5	1 0	200 T	37·76	166
D	Cupar (Fife & Kinross Asylum)	Dr. Turnbull	5	0 4	210	26·94	137
	Balmerino	Col. F. J. Stuart Gray	5	1 3	60 T	31·32	179
	Tayport (Low Light)	G.C.Buchanan,Esq.,CE	5	1 0	27	29·59	132
	PERTH.						
	Aberfoyle	J. M. Gale, Esq., C.E.	8	0 6	60	62·85	...
	Dunblane (Kippenross)	Col. P. Stirling	3	1 3	240	51·25	...
	,, (Kippendavie Lodge)	,, ,,	8	2 9	300	40·65	...
D	Doune (Gartincaber)	G. Burn Murdoch, Esq.	5	1 0	200 T	46·13	214
	Sheriffmuir (Lynns Farm)	Col. P. Stirling	...	1 0	550	43·89	...
	Glendevon (Glensherup)	A. W. Bell, Esq., C.E.	12	0 4	745 T	65·78	...
	Loch Dhu	J. M. Gale, Esq., C.E.	8	0 6	325	83·00	...
	Ledard	,, ,, ,,	...	...	1500	61·50	...
	Loch Drunkie	,, ,, ,,	8	0 6	420	66·75	...
	,, Vennachar	,, ,, ,,	8	0 6	275	57·30	...
D	Lanrick Castle	Mr. J. Begg	3	1 0	...	48·65	148
	Bridge of Turk	J. M. Gale, Esq., C.E.	8	0 6	275	62·15	...
	Loch Katrine (Tunnel Hill Top)	,, ,, ,,	8	0 6	830	82·90	...
	Between Glen Finlas & Ben Ledi	,, ,, ,,	8	0 6	1800	48·30	...
	Callander (The Gart)	C. Douglas, Esq.	5	0 7	250	58·60	...
	,, (Leny)	J. B. Hamilton, Esq.	3	0 4	345 T	54·20	...
	Braco (Nether Cambushinnie)	J. W. Stirling, Esq.	5	0 10	380	49·27	...
	Abernethy	Dr. Buchan, F.R.S.	...	...	...	40·12	...
	Balquhidder (Blaircreach)	J. Carnegie, Esq.	5	1 0	460	69·86	...

DIVISION XVI.—EAST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
PERTH—(*con*).						
D Balquhidder (Stronvar)	J. Carnegie, Esq.	6	1 0	422 T	77·30	229
D Lochearnhead (Ardvorlich)	Col. Stewart	5	1 0	321	64·48	204
Loch Earn (St. Fillans)	Miss Mackintosh	5	0 6	333 T	58·87	189
D Crieff (Ochtertyre)	Mr. G. Croucher	5	2 6	326 T	48·12	193
Perth (Kinfauns Castle)	Col. F. J. Stuart Gray..	5	16 0	150 T	31·20	179
,, (,, ,, Garden)	,, ,, ,,	5	1 3	20	32·72	190
,, (Rosebank)	Dr. Buchan, F.R.S.	...	...	140	35·68	138
Killin (Auchmore)	Mr. J. Cant	5	1 0	400 T	60·39	...
D Coupar Angus Station	Mr. J. Robertson	5	1 3	183 T	31·14	173
Pitlochry (Donavourd)	W. Maxwell, Esq.	5	0 7	400	36·77	159
D Blair-Atholl	Mr. A. Cameron	5	1 0	420	34·84	175
FORFAR.						
Buddonness (Low Light)	G.C.Buchanan,Esq., CE	5	1 0	17	28·52	156
D Dundee (Harbour)	,, ,, ,,	5	0 10	14	32·41	175
D Broughty Ferry (Douglas Ho.)	Mr. K. Graham	5	5 6	60 ⊼	31·77	160
,, ,, (CoronaGardens)	Mr. J. Machar	5	4 6	96	31·84	144
D Dundee (Eastern Necropolis)	Mr. J. Carnochan	3	0 4	199 T	30·50	143
D ,, (,, ,,)*new*	,, ,, ,,	5	0 4	199 T	30·93	180
,, (Dens Works)	Messrs. Baxter Bros.	5	...	119 T	30·76	169
,, (Westgreen House)	Dr. Rorie	5	0 10	216	31·51	...
D ,, (Camperdown Works)	Messrs. Cox Bros.	5	3 8	290	25·80	111
Liff	Col. F. J Stuart Gray..	5	1 3	260 T	33·74	171
D†Craigton	G. Baxter, Esq., C.E.	8	1 0	481	40·41	146
† ,, M	,, ,,	11	3 0	481	36·78	...
†Crombie Reservoir M	,, ,,	11	3 0	522 T	39·53	...
D Arbroath (Waterworks)	W. Stewart, Esq., C.E.	5	0 11	58 ⊼	26·21	148
,, (,,)M	,, ,, ,,	5	1 0	58 ⊼	26·18	...
D ,, (,,) *Tower*	,, ,, ,,	5	48 0	157 ⊼	18·35	135
,, (,,) ,, M	,, ,, ,,	5	48 0	157 ⊼	16·76	...
D ,, (Dishland Hill)	Mr. J. Campbell	5	0 11	69	24·52	155
D Inverarity Manse	Rev. P. Stevenson	5	1 0	301 T	35·66	132
D Glamis Castle	Mr. T. Wilson	5	4 0	250	33·05	141
Forfar (Lilyfield)	A. L. Fenton, Esq.	...	...	...	31·98	...
Rescobie (Pitscandly)	W. F. Farquhar, Esq..	5	5 10	280	28·74	...
Kirriemuir (Lintrathen)	G. Baxter, Esq., C.E..	8	1 0	700	34·90	...
D ,, (,, Balnakeilly)	,, ,, ,,	8	1 0	700	35·42	185
,, (,, ,,)M	,, ,, ,,	8	1 0	700	32·80	...
,, (,, CreichHill)M	,, ,, ,,	8	1 0	1500	28·80	...
,, (,, Longdrum)	,, ,, ,,	8	1 0	1142	36·90	...
,, (,, Glen Dye)	,, ,, ,,	8	1 0	1409	42·20	...
,, (,, Barney)	,, ,, ,,	8	1 0	1145	41·10	...
,, (,, Glen Damff)	,, ,, ,,	8	1 0	1480	38·90	...
D ,, (Lednathie)	Mr. W. Morrison	5	1 0	720	48·42	196
Montroseness	Bd. of Northern Lights	...	...	...	26·41	...
D Montrose (Melville Gardens)	Mr. J. R. Findlay	5	7 0	23 T	25·99	116
D ,, (Sunnyside Asylum)	J. Masson, Esq.	5	0 10	200	29·82	141
D ,, (Kinnaber W.W.)	Mr. J. R. Findlay	5	1 0	38 T	30·45	157
Brechin (Stracathro Gardens)	RtHonJACampbell,MP	5	1 0	240 T	34·51	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height above Ground.	Rain Gauge. Height above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet.	inches.	
KINCARDINE.						
Johnshaven (Brotherton)	Mrs. Scott	5	1 0	...	25·16	174
Laurencekirk (Johnstone Lodge)	Dr. Buchan, F.R.S.	...	...	...	36·99	...
D Fettercairn (The Burn) *House*	Col. C. McInroy, C.B.	5	0 11	250	38·99	180
,, Manse	Rev. W. Anderson	5	0 2	230 T	34·39	...
D Banchory (Invercannie)	W. Dyack, Esq., C.E.	12	0 10	205	36·83	252
Girdleness	Bd. of Northern Lights	...	...	...	24·21	145
ABERDEEN.						
D†Braemar	J. Aitken, Esq.	8	0 9	1114 T	35·46	213
Forest of Glen Tana	Sir W. C. Brooks, Bt.	5	1 0	576 T	31·80	...
D Cromar (Logie Coldstone Manse)	Rev. Dr. Davidson	5	1 0	694 ⅄	30·06	194
,, (,, ,, Loanhead)	Mr. A. Farquharson	5	1 0	743 ⅄	29·64	197
,, (Tillypronie)	Mr. R. Littlejohn	5	1 0	1120 ⅄	33·07	234
D Aberdeen (Cranford)	D. McHardy, Esq.	5	1 0	120 T	33·16	222
,, (Duthie Park)	Dr. Buchan, F.R.S.	...	...	44	30·71	195
,, (King's College)	The Meteor. Council	8	2 0	48	30·28	222
D Towie (Culquoich)	Col. Allardyce	5	1 6	800	32·72	113
Ellon (Mains of Waterton)	T. F. Jamieson, Esq.	5	1 0	100	30·61	...
,, (Kermuck)	Mr. T. Mair	11	0 6	300 T	31·40	...
Haddo House	Mr. J. Forrest	5	0 5	180 T	30·95	...
Peterhead (Buchanness)	Bd. of Northern Lights	...	...	...	24·80	127
,, (H.M. Prison)	Dr. Buchan, F.R.S.	...	...	109	20·87	153
New Deer Schoolhouse	Mr. H. Cowie	5	1 0	407 ⅄	25·00	...
Kinnairdhead	Bd. of Northern Lights	...	...	...	20·78	126
BANFF.						
Aberlour	J. McGowan, Esq.	5	1 0	300	32·44	159
D Keith (H.R.S.)	The Station Agent	5	1 0	364 T	32·71	196
Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 T	29·81	245
Cullen House	Mr. J. F. Smith	5	1 0	100 T	31·85	...
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan	5	1 1	712 ⅄	31·06	168
Craigellachie (WesterElchiesSch)	Mr. J. Milne	5	1 0	560 T	32·27	175
D Forres H.R.S.	The Station Agent	5	1 0	25	28·91	173
,, (Grange Hall)	J. Grant Peterkin, Esq.	5	1 0	52 T	28·80	...
Kinloss	J. Mackessack, Esq.	5	1 3	20 T	28·07	...
D Gordon Castle	Mr. C. Webster	8	1 0	107 ⅄	32·81	205
NAIRN.						
D Ardclach (Glenferness)	Anonymous	...	...	...	35·51	148
D Cawdor (Budgate)	J. Joss, Esq.	5	1 0	250 T	33·09	195
D Nairn (Achareidh)	Col. Clarke	8	1 0	59 T	27·22	191
,, (School Ho.)	The Meteor. Council	8	1 9	84	28·23	198

DIVISION XVIII.—NORTH WESTERN COUNTIES.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	WEST ROSS.‡						
D	Kintail (The Glebe)	Rev. R. MacKenzie	5	0 10	5 ⅄	71·78	238
	Applecross Gardens	Mr. D. McCowan	5	1 0	70 ⅄	53·00	...
	Strathconan (Dalbreac)	Mr. D. McIver	5	1 0	450	46·13	...
D	Glencarron Lodge	Mr. D. D. Munro	5	1 0	504	93·11	255
D	Loch Torridon (Bendamph)	Hon. L. F. King-Noel	5	0 5	25	88·34	236
D	,, ,, (Shieldaig)	C. D. Rudd, Esq.	...	4 0	30	55·90	208
	Lochbroom (Loch Drome)	A. W. Hardy, Esq.	8	0 7	850 T	61·20	...
	Braemore House	,, ,, ,,	8	0 7	750	63·32	...
	,, (Foich Lodge)	,, ,, ,,	8	0 7	100 T	51·78	...
	Isle of Lewis (Stornoway)	Bd. of Northern Lights	...	3 4	31 ?	40·06	152
	,, (,,)	The Meteor. Council	8	1 0	24	59·86	251
	,, (Butt of Lewis)	Bd. of Northern Lights	...	3 6	...	38·61	158
	EAST ROSS.‡						
	Contin (Kinnahaird)	W. Ross, Esq.	5	1 2	74	30·67	...
D	Strathpeffer Spa (Ambatovory)	J. T. Fox, Esq.	5	1 0	254	30·09	206
	Evanton (Swordale House)	Dr. Buchan, F.R.S.	...	...	...	36·10	...
	Cromarty	Bd. of Northern Lights	...	...	...	34·38	122
D	Alness (Ardross Castle)	Mr. W. Minty	5	1 0	450 ⅄	42·95	241
	Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E.	5	1 0	95	24·14	...
	,, (Geanies Mains)	Miss Hope Douglas	5	1 0	200 T	26·15	...
	Tarbetness	Bd. of Northern Lights	...	3 4	61 ?	22·77	...
	WEST INVERNESS.						
	Moidart (Kinloch moidart)	R. Stewart, Esq.	...	...	...	66·70	...
	Ben Nevis Observatory	Dr. Buchan, F.R.S.	5	...	4407	187·31	254
	Fort William (Observatory)	The Meteor. Council	8	1 8	33	72·24	228
	Moidart (Roshven, Glenmutchkin)	Mr. J. McPherson	5	1 0	100	84·54	229
	,, (,,)	Prof. Blackburn	5	1 0	68 ⅄	64·15	244
D	Loch Shiel (Glenaladale)	Major Macdonald	5	1 2	50 ?	110·86	236
D	Arisaig	Mr. W. Grant	5	1 0	20 ?	67·72	240
D	Loch Nevis (Inverie)	Mr. J. Huggins	5	0 6	10	88·29	238
D	Glenquoich	Mr. D. Grant	8	2 4	590 ⅄	107·44	242
D	Glenelg	Rev. A. Mactaggart	5	1 0	85 T	67·53	252
D	Skye (Strathaird)	Mr. K. Macdonald	5	1 4	45	96·38	151
	,, (Oronsay)	Bd. of Northern Lights	...	0 6	15 ?	36·56	147
	,, (Kyleakin)	,, ,, ,,	...	...	...	38·30	195
D	,, (Scalpay Island)	Mr. D. Gunn	5	1 0	4	71·26	236
D	,, (Raasay House)	Mr. J. M. Paul	5	2 6	80	72·98	229
D	,, (Gesto Hospital, Edinbane)	Dr. L. Grant	5	0 10	20	69·13	250
D	,, (Lynedale)	R. J. Cunninghame, Esq.	8	0 9	40 ⅄	81·57	263
	Rona	Bd. of Northern Lights	...	...	...	39·10	169
	Barra (Barrahead)	,, ,, ,,	...	3 0	640 ?	33·87	174
D	S. Uist (Askernish)	D. Paterson, Esq.	5	1 6	10	51·94	243
	,, (Ushenish)	Bd. of Northern Lights	...	0 4	157 ?	89·32	182
D	Benbecula	Rev. N. MacDougall	5	1 0	10 L	42·36	167
	N. Uist (Monach)	Bd. of Northern Lights	...	...	150	56·05	187
	Harris (Island Glass)	,, ,, ,,	...	...	...	45·79	174

‡ Including Cromarty.

DIVISION XVIII.—NORTH WESTERN COUNTIES—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground.	Height Above Sea Level	Depth of Rain 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	EAST INVERNESS.						
D	Mucomir	J. Scott, Esq., C.E.	5	1 0	155 ⅄	64·82	202
D	Laggan Locks	H. J. Morton, Esq., C.E.	5	1 0	118 ⅄	67·38	255
	Invergarry	Mrs. Ellice	5	1 0	...	48·17	...
	Kingussie	Dr. Buchan, F.R.S.	...	...	824	31·16	214
D	Fort Augustus	H. J. Morton, Esq., C.E.	5	1 0	98 ⅄	49·59	177
D	,, ,, (St. Benedict's)	Rev. M. Wall	5	1 6	68 ⅄	42·33	215
	Alvie Manse	Rev. J. Anderson	5	1 0	720	30·90	175
	Aviemore (H.R.S.)	The Station Agent	5	1 0	710	31·29?	119
	Loch Ness (Killin)	W. Murray Morrison Esq	5	1 0	1200	41·90	...
D	,, ,, (Whitebridge)	,, ,, ,,	5	1 0	645	31·22	179
	,, ,, (Aberchalder)	,, ,, ,,	5	1 0	665	32·66	...
	,, ,, (Foyers)	,, ,, ,,	8	2 0	52	35·42	...
D	,, ,, (Drumnadrochit)	Mr. A. Grant	5	1 0	300 T	35·11	220
	Inverness (High School)	Dr. Buchan, F.R.S.	...	...	114	31·72	185
	DIVISION XIX.—NORTHERN COUNTIES.						
	SUTHERLAND.						
D	Dornoch	Rev. D. Grant	5	1 0	21	28·69	186
D	Invershin	Mr. G. Young	5	4 0	20 T	36·95	194
D	Golspie (H.R.S.)	The Station Agent	5	0 9	27	27·52	150
D	,, (Dunrobin Castle)	Mr. D. Melville	5	1 0	14 ⅄	34·16	184
	,, (,, ,,) M	,, ,,	3	0 3	13 ⅄	34·45	...
	Lairg	Rev. D. Macrae	5	0 10	385 ?	35·34	228
	Stourhead	Bd. of Northern Lights	...	...	...	34·10	179
D	Loch Naver (Altnaharra)	Rev. A. Sutherland	5	1 0	300 T	41·00	211
D	Bettyhill	Mr. Evander Mackay	5	1 0	100	37·09	200
	Durness	Rev. Adam Gunn	5	...	...	54·45	...
	Cape Wrath	Bd. of Northern Lights	3	3 6	355	41·33	150
	CAITHNESS.						
	Wick	The Meteor. Council	8	1 9	77	29·68	235
	,, Nosshead	Bd. of Northern Lights	...	...	...	30·38	182
D†	Watten (H.R.S.)	The Station Agent	5	2 6	75 T	26·91	214
	Thurso (Holburnhead)	Bd. of Northern Lights	3	0 8	60 ?	39·05	161
	Dunnethead	,, ,, ,,	...	3 0	...	24·55	128
	Pentland Skerries	,, ,, ,,	...	3 3	72 ?	29·70	123
	Stroma	,, ,, ,,	...	...	...	15·80	...
	ORKNEY.						
D	South Ronaldshay (Roeberry)	J. Gray, Esq.	5	1 2	101 ⅄	38·21	231
	Hoy (Cantickhead)	Bd. of Northern Lights	...	0 6	...	41·38	154
	,, (Graemsay Sound, East=High)	,, ,, ,,	...	3 4	27 ?	37·03	124
	,, (,, ,, West=Low)	,, ,, ,,	...	3 4	...	48·58	172
	Pomona (Deerness)	Dr. Buchan, F.R.S.	...	1 0	172	36·22	197
	,, (Kirkwall)	Mr. J. W. Cursiter	3	1 3	20	39·54	217
	Hellyar Holm	Bd. of Northern Lights	...	...	...	38·55	173
	Auskerry	,, ,, ,,	...	...	...	35·89	139

DIVISION XIX.—NORTHERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel	1899	
			ft. in.	feet.	inches.	
ORKNEY—(*con.*)						
Shapinsay (Balfour Castle)	Mrs. Balfour	5	0 6	50	30·88	...
Sanda (Start Point)	Bd. of Northern Lights	11	0 6	29 ?	47·31	159
Westra (Noup Head).....	,, ,, ,,	...	...	...	51·35	155
North Ronaldshay	,, ,, ,,	...	...	...	34·96	164
SHETLAND.						
Fair Isle, S.	Bd. of Northern Lights	...	...	...	13·97	...
,, ,, N.	,, ,, ,,	...	...	...	25·00	...
Sumburghead (Dunroseness) ...	The Meteor. Council ...	8	1 0	84	41·32	243
Bressay	Bd. of Northern Lights	...	...	...	42·60	146
Sule Skerry	,, ,, ,,	...	...	...	47·00	122

IRELAND.

DIVISION XX.—MUNSTER.

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height above Ground. ft.	Height above Ground. in.	Height above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	CORK.							
D	Castletownshend (Glen Barrabane)	E. B. Coghill, Esq. ...	5	3	0	25 L	32·78	146
D	Dunmanway (Coolkelure)	Col. Shuldham	5	1	6	500 T	75·64	225
	Bandon (Ardnacarrig)	G. A. Armstrong, Esq.	5	1	0	126	49·40	202
	Roche's Point.....	The Meteor. Council ...	8	1	9	32	48·87	171
D	Passage West.....	C. H. Jacob, Esq.	8	4	0	287	42·22	189
D	Douglas (Villa Franca).....	R. C. Sikes, Esq.	5	1	0	49 T	47·42	190
D	Cork (Queen's College)	Prof. Jack	8	1	0	60	47·01	182
D	,, (The Palace)	Rt. Rev. Bishop of Cork	5	1	0	40 L	44·97	191
D	,, (Wellesley Terrace)	W. Miller, Esq.....	5	1	0	190 B	41·85	203
	,, (St. Anne's Hill)	A. G. Bennett, Esq. ...	5	4	6	250	42·45	175
D	Mallow (Summer Hill)	J. F. Williamson, Esq.	5	1	10	230 T	41·54	184
D	,, (Longueville)	R. E. Longfield, Esq...	5	0	10	300	37·36	184
D	,, (,, Field) ...	,, ,, ,, ...	5	1	1	300	41·36	182
	Doneraile (Carker House).....	The Meteor. Council ...	5	1	0	267	36·83	145
	KERRY.							
D	Darrynane Abbey	D. O'Connell, Esq.....	5	1	0	13 M	44·30	226
D	Waterville (Iveragh Lodge).....	T. J. Wilmot, Esq.....	5	1	0	86 M	55·02	220
	Kenmare (Derreen)	Mr. W. Holbrow	5	1	0	74 T	75·95	207
	Valencia (Glanleam)	The Meteor. Council ...	8	1	0	12	61·56	220
	Cahirciveen	,, ,, ,, ...	8	2	0	32	61·00	232
	Gap of Dunloe (Garrymeen).....	Ven Archdeacon Wynne	8	3	0	75	79·25	...
D	Killarney (Woodlawn)	,, ,, ,, ...	5	1	1	96 M	58·92	182
	WATERFORD.							
D	Knockaderry	M.J. Fleming, Esq., C.E.	5	7	0	241 T	58·86	170
D	Waterford (Brook Lodge).....	C. P. Bolton, Esq., C.E.	5	1	0	104 T	41·06	167
D	,, (Cove Lodge)	T. N. Harvey, Esq. ...	11	3	8	76	36·47	171
	,, (,, ,,) .....M	,, ,, ,, ...	5	1	0	72	38·74	...
D	,, (Tycor)	M.J. Fleming, Esq. C.E.	5	0	7	171 T	40·13	148
D	Portlaw (Mayfield).....	J. Anderson, Esq.	5	4	0	70	46·53	178
	,, (The Gardens, Curraghmore)	Mr. T. Singleton	5	1	0	130	48·37	119
D	Glenam [Clonmel]	Miss Grubb.....	8	1	4	80 T	43·99	194

DIVISION XX.—MUNSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Rain Gauge. Height Above Ground	Rain Gauge. Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft. in.	feet.	inches.	
	TIPPERARY.						
D	Clonmel (Bruce Villa)	J. H. Grubb, Esq.	5	1 3	110 T	37·77	200
D	Cahir (Duneske)	R. W. Smith, Esq.	5	1 0	88	36·75	186
	,, Abbey	Mrs. W. Rochfort	5	0 6	...	36·11	147
	Ballina [Killaloe]	T. Crosthwaite, Esq. C.E.	5	2 0	124 R	44·85	209
D	Derry Castle [Killaloe]	Mr. T. Manly	5	1 6	580 T	46·57	211
D	Nenagh (Castle Lough)	A. Parker, Esq.	5	1 3	120 T	39·08	195
D	Ballingarry (Hazelfort)	Mrs. Fraser	5	1 0	...	31·83	189
	LIMERICK.						
	Adare Manor	The Meteor. Council	8	...	...	35·79	195
	Foynes	,, ,, ,,	5	1 0	104	41·12	189
	Pallaskenry (Kilcornan)	Mr. J. Smyth	5	1 0	130	23·33?	...
	Limerick (Roxborough)	A. W. Shaw, Esq.	8	1 6	112 T	37·00	203
	,, (Victoria Terrace)	J. Horan, Esq.	5	1 0	60 T	34·36	189
	,, (Mulgrave Street)	The Meteor. Council	5	1 0	...	36·13	...
	CLARE.						
	Carrigaholt Castle	W. C. V. Burton, Esq.	5	1 0	16	39·33	212
D	Killadysert (Paradise Hill)	Rev. H. Henn	5	0 11	105 T	45·73	215
	Newmarket-on-Fergus	The Meteor. Council	5	1 0	...	41·18	201
D	Broadford (Hurdlestown)	Colonel Bentley	5	1 0	167 R	32·98	221
	Ennis (Roslevan)	Mrs. Scott	5	1 11	40	40·13	191
D	Miltown Malbay	M. Molohan, Esq.	5	1 0	400 T	44·29	229
	Inagh (Mount Callan)	The Meteor. Council	5	1 0	480	58·91	217
D	Lahinch (Moy House)	Miss Bowes	5	1 0	53	40·33	215
	Ennistymon House	H V Macnamara, Esq DL	5	1 0	38	*44·66*	...
D	,, Rectory	Rev. C. W. McDowell	5	1 0	132	*44·60*	218

DIVISION XXI.—LEINSTER.

	WEXFORD.						
D	New Ross (Longraigue)	J. W. Deane, Esq.	5	1 0	210 T	40·05	182
D	Wexford (Bann-aboo)	Col. Magrath	8	4 0	9	35·47	166
D	Templeudigan (Ballindoney)	J. Budgen, Esq.	5	1 0	434 B	42·27	196
D	Enniscorthy (Ballyhyland)	Mrs. Moffat	5	1 0	365 T	39·95	197
	,, (Monksgrange)	E. M. Richards, Esq.	5	1 0	565 B	45·85	212
D	Oulart (Wells)	C. M. Doyne Esq.	5	1 0	215 T	38·05	136
D	Gorey (Courtown House)	Rt Hon Earl of Courtown	5	3 0	80 T	33·23	158
	KILKENNY.						
D	Rockenham [Waterford]	A. E. Graves, Esq.	8	2 6	140 T	40·62	148
D	Inistioge (Woodstock)	Lady Louisa Tighe	5	1 0	400 T	42·91	174
D	Graigue (Brandondale)	R. R. Burtchaell, Esq.	5	2 0	90 T	38·92	152
	Kilkenny Castle	The Meteor. Council	8	1 0	208	30·90	192
D	,, (Sion Villa)	J. O'Connell, Esq., C.E.	5	1 0	198	30·45	193
	,, (Millmount)	R. Collis, Esq.	5	2 0	180	29·69	179
	Goresbridge (Barraghcore House)	H. de M. Fleming, Esq.	5	1 0	130 T	31·49	189

DIVISION XXI.—LEINSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground		Height Above Sea Level	Depth of Rain. 1899	Days on which ·01 or more fell.
				ft.	in.	feet.	inches.	
	WICKLOW.							
D	Laragh (Glendalough)	Wyndham H Wynne Esq	5	2	9	460 T	57·58	209
	Roundwood (Vartry Lodge)	Spencer Harty, Esq. C.E.	5	1	0	720	42·71	171
	,,	,, ,, ,,	5	1	6	800 ⅄	44·44	...
	,, (Knockatemple)	,, ,, ,,	5	1	6	760 ⅄	43·84	...
	Newcastle (Killadreenan)	B. H. Steede, Esq., M.D.	8	1	2	255 T	34·61	174
	Tithewer	Spencer Harty, Esq. C.E.	5	1	6	1000 ⅄	40·06	...
	Annacarter	,, ,, ,,	5	1	6	750 ⅄	48·41	...
	Greystones (Knockdolian)	R Cathcart Dobbs Esq CE	5	1	2	68 T	36·69	182
D†	Bray (Fassaroe)	R. M. Barrington, Esq.	10	5	0	250	42·43	181
	CARLOW.							
	Bagnalstown (Fenagh House)	D. R. P. Beresford, Esq	5	1	0	340	33·17	166
D	Carlow (Browne's Hill)	W. Browne Clayton, Esq	5	1	0	291 ⅄	32·64	188
	QUEEN'S COUNTY.							
	Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	3	0	532 ⅄	34·67	215
	KING'S COUNTY.							
D	Parsonstown (Birr Castle)	Rt Hon Earl of Rosse FRS	8	1	0	180	32·89	193
	Victoria Lock [Meelick]	T. Crosthwaite, Esq. C.E.	5	2	0	119	23·53?	102
D	Banagher	Mr. J. Deegan	5	2	0	170	31·40	127
	Tullamore	Rev. R. S. Craig	5	1	0	201 T	32·44	...
	KILDARE.							
D	Monasterevin (Moore Abbey)	Mr. A. Whitelaw	5	1	0	236 T	31·36	198
D	Straffan House	Mr. F. Bedford	5	2	0	240 ⅄	31·89	185
	DUBLIN.							
	Glen-na-Smoel (Water Works)	F. P. Dixon, Esq., C.E.	5	1	6	516 ⅄	41·53	202
	Ballybrack (Streamville)	F. B. Falkiner, Esq.	5	1	5	30 B	30·88	169
	Killiney (Cloneevin)	R. O'B. Furlong, Esq.	5	1	0	250 T	31·55	183
	Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0	6	125 ⅄	27·60	189
	,, (Leinster Road)	E. H. Cannon, Esq.	5	1	0	170	27·47	182
D	Donnybrook (Seaview Terrace)	A. C. Digby French, Esq.	5	0	9	15	25·76	173
D†	Dublin (Fitz William Square)	Sir J. W. Moore, M.D.	8	1	6	54 T	27·74	186
D	,, (Phœnix Park)	Major C. Haynes, R.E.	8	1	0	155 ⅄	26·96	207
D	Lucan (The Garden)	Mr. P. Reid	5	1	0	105 ⅄	26·98	147
D	Glasnevin (Botanic Gardens)	F. W. Moore, Esq.	8	1	0	68 ⅄	30·51	180
D	Balbriggan (Ardgillan)	Capt. Taylor	5	1	0	211 T	29·42	183
	,, (,,)	,, ,,	8	1	0	211 T	29·56	...
D	,, (Laragh)	Rev. S. P. Warren	5	1	0	57 T	29·97	211
	MEATH.							
D	Summerhill House	Rt. Hon. Lord Langford	5	1	0	372 T	32·35	199
D	Athboy	C. P. Coghill, Esq.	8	1	3	227	35·49	184
	Kells (Headfort)	The Marquis of Headfort	5	3	6	230	41·69	216
D	Moynalty (Westland)	W. A. Barnes, Esq.	5	1	2	260 T	37·20	211
D	Drumconrath (Aclare House)	Admiral Singleton, C.B.	10	2	6	170 T	34·36	211
D	,, (Corstown House)	,, ,, ,,	5	3	0	153 T	28·31	144

DIVISION XXI.—LEINSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above Sea Level	Depth of Rain. 1899	Days on which 01 or more fell.
			ft. in.	feet.	inches.	
WESTMEATH.						
Athlone (The Moorings)	Capt. J. Preston	5	1 0	175	31·07	...
D ,, (Twyford)	J. P. Hodson, Esq.	5	5 0	188 ⅄	36·79	215
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 T	36·13	180
D Streete (Daramona)	W.E.Wilson,Esq., FRS	10	1 0	270	35·65	209
LOUTH.						
D Ardee (Lissrenny)	T. F. Filgate, Esq.	8	0 10	75 T	32·86	222
Dundalk (Farndreg)	J. Barton, Esq.	5	1 0	90 T	31·42	156
D†Greenore	T. Chambers, Esq.	5	1 0	4 L	33·84	155
LONGFORD.						
Cloondrah	T.Crosthwaite,Esq.C.E.	5	2 0	130	29·18	262

DIVISION XXII.—CONNAUGHT.

GALWAY.							
D Woodpark [Scariff]	R. F. Hibbert, Esq.	5	1 0	170 ⅄	37·44	174
D Galway (Queen's College)	Prof. Anderson	5	9 0	30	39·65	206
D Ballinasloe	W. H. Kempster, Esq.	5	3 0	160 ⅄	35·02	214
D Woodlawn	Mr. A. Porter	5	3 6	300 T	38·09	218
D Ahascragh (Clonbrock)	Rt.Hon.Lord Clonbrock	10	5 4	200 T	35·63	117
D Clifden (Kylemore House)	Mr. T. McNab	5	1 0	105	76·33	207
D ,, (,, Castle)	Mr. W. Comfort	5	0 9	170 T	68·84	248
Tuam (Gardenfield)	M H. Kirwan, Esq.	5	1 0	155 T	43·32	...
,, (,,) ...*Snowdon*	,, ,, ,,	5	6 0	160 T	42·65	...
ROSCOMMON.						
Athlone	T.Crosthwaite,Esq.C.E.	5	2 0	130 ⅄	32·28	174
Rooskey	,, ,, ,,	5	2 0	136 ⅄	32·69	239
MAYO.						
D Cong (The Glebe)	Rev. R. Y. Lynn	5	1 11	112 T	48·50	222
Ballinrobe (Cranmore)	Miss Knox	5	0 9	99	47·10	...
D Achill (Coraun House)	C. Scrase Dickins, Esq.	5	0 10	15	57·17	142
D Newport (Burrishoole House)	H.M.AnketellJonesEsq	5	3 6	30	49·82	211
Doo Castle [Tobercurry]	Mr. D. O'Dowd	...	...	...	43·68	
D Crossmolina (Enniscoe)	J. Pratt, Esq.	5	0 11	74 T	53·40	258
SLIGO.						
Ballymote (New Park)	R. A. Duke, Esq.	5	1 2	228	41·60	...
D Collooney (Markree Observatory)	F. W. Henkel, Esq.	5	1 0	130 ⅄	43·73	233
,, (,, ,,)	,, ,, ,,	5	16 6	148 ⅄	38·76	225
D Ballysadare Bay (Glen Lodge)	Vernon Cochrane, Esq.	5	1 0	14	44·64	217

DIVISION XXII.—CONNAUGHT—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground	Height Above SeaLevel	Depth of Rain. 1899	Days on which ·01 or more fell.
			ft. in.	feet	inches.	
LEITRIM.						
Jamestown (Albert Lock)	T.Crosthwaite,Esq.C.E.	5	2 0	142 ⅄	29·80	180
Carrigallen	The Meteor. Council	...	...	...	36·90	222
Drumshanbo	T.Crosthwaite,Esq.C.E.	5	2 0	165 ⅄	35·98	146

DIVISION XXIII.—ULSTER.

CAVAN.						
D Stradone House	Mr. J. Hart	5	1 0	280	39·18	180
Cavan (Water Works) M	W. H. Morris, Esq.C.E.	8	...	304 ⅄	31·75	...
D Killeshandra (Castle Hamilton)..	W. J. Hamilton, Esq...	5	1 0	251 T	31·00	180
D Belturbet (Cloverhill)	Mrs. Sanderson	5	1 0	202 T	33·51	205
D ,, (Red Hills)	Mrs. Whyte Venables..	5	0 9	208 ⅄	27·68	161
D Ballyconnell House	Surg.-Gen.S.B.Roe, CB	8	1 2	196	40·20	223
MONAGHAN.						
D Dartrey [Cootehill]	Mr. F. Prince	5	2 6	265	38·11	194
D Monaghan (Rowantree House)...	Dr. J. C. Hall	5	5 6	240	31·49	179
ARMAGH.						
D†Bridge Street [Newry]	J.L.D.Meares,Esq.C.E.	5	1 0	22 ⅄	40·44	206
D Armagh Observatory	Dr. Dreyer	8	1 0	205 ⅄	32·50	207
D Rich Hill (Fruitfield)	Messrs. Lamb Bros.	5	3 9	...	33·58	209
D Loughgall (Manor House)	Mrs. Cope	5	1 0	205 T	31·86	192
D Lurgan (Belle Vue)	S. A. Bell, junr., Esq..	5	0 5	200 T	29·56	175
DOWN.						
D†Warrenpoint (Summer Hill)	B. M. Kernan, Esq.	5	1 0	30 L	40·04	161
D Rathfryland (Ballynagappoge)...	J. Smyth, Esq., C.E....	5	1 0	300	34·56	147
D†Castlewellan (Lough Island)	,, ,, ,,	5	1 0	440 T	49·87	164
Banbridge (Katesbridge)	A. Mulligan, Esq.	5	1 0	230	32·23	167
D Seaforde	Rt. Hon. Col. Forde	8	0 5	180 ⅄	43·36	188
D Banbridge (Corbet Reservoir)	J. Smyth, Esq., C.E....	5	1 0	234	30·91	135
D† ,, (Milltown)	,, ,, ,,	8	0 8	220 T	32·37	186
D†Waringstown	Holt Waring, Esq.	8	0 8	191 ⅄	37·52	166
Donaghadee	The Meteor. Council	8	1 6	30	32·80	212
ANTRIM.						
Stonyford (Belfast W. W.)	FWMcCulloughEsq.CE	5	1 6	437 ⅄	38·76	208
D†Belfast (Queen's College)	Mr. G. A. Robinson	11	7 4	68 ⅄	34·91	202
D ,, (Linen Hall Library)	G. Maxwell, Esq.	5	4 9	12 T	35·50	179
D ,, (Springfield)	the late J. Firth, Esq..	5	1 0	150 T	40·02	204
† ,, (Antrim Road)	FWMcCulloughEsq.CE	5	7 0	144 T	36·59	167
Antrim (Ardnaveigh)	H. B. Murray, Esq.	6	1 0	210 T	34·24	192
Carrickfergus (Dorisland)	FWMcCulloughEsq.CE	5	1 0	250 ⅄	39·08	227
,, (South Woodburn)	,, ,, ,,	5	1 0	640 ⅄	42·99	218
,, (North Woodburn)	,, ,, ,,	5	1 0	735 ⅄	44·42	219

DIVISION XXIII.—ULSTER—(*continued*).

	STATIONS.	AUTHORITIES.	Rain Gauge. Diameter	Height Above Ground. ft.	in.	Height Above Sea Level feet.	Depth of Rain. 1899 inches.	Days on which ·01 or more fell.
	ANTRIM—(*con.*)							
	Carrickfergus (Copeland)	F W McCullough Esq. C.E	5	1	0	424 T	42·47	235
	,, (Lough Mourne)	,, ,, ,,	5	1	0	596 T	44·80	232
D	Ballymena (Harryville)	J. R. Williams, Esq.	5	1	5	150 T	40·90	232
D	Broughshane (Quolie)	H. O'Hara, Esq.	5	1	4	893	46·53	213
	Ballymoney (Balnamore)	W. H. Lawlor, Esq.	5	1	5	50 T	40·05	244
	Stranocum (Gardenvale)	A. McNeill, Esq.	5	1	0	160	44·78	205
D	Bushmills (Dundarave)	Sir F. E. Macnaghten, Bt	5	1	0	162 T	40·77	205
	LONDONDERRY.							
D	Garvagh (Moneydig)	H. R. Morrison, Esq.	5	1	0	121	41·18	185
D	Londonderry (Clooney Terrace)	Mr. J. Conroy	5	1	0	68 T	38·57	233
	,, (The Asylum)	T. Campbell, Esq.	5	1	0	36 T	36·30	229
D	,, (Creggan Res.)	Mr. J. Hutchison	8	1	0	320 T	39·41	240
	Limavady (Drenagh)	C. T. McCausland, Esq	5	1	0	80	37·49	229
	TYRONE.							
D	Stewartstown (The Square)	A. Johnston, Esq.	5	1	4	300 T	37·64	191
D	Omagh (Edenfel)	Col. Buchanan, C.B.	8	1	0	280 T	41·97	206
D	Newtown Stewart (Baron's Court)	Mr. R. Bell	5	1	0	250 T	43·97	201
	DONEGAL.							
D	Killybegs	A. Brooke, Esq.	5	1	0	30	58·66	244
	Rathmullen	Dr. Loughnan	5	1	0	1	39·12	196
D	Buncrana (Rockfort)	T. Colquhoun, Esq.	5	1	0	40 T	38·73	218
D	Moville (Prospect Villa)	the late Mr. J. Lowry	8	2	0	80	46·29	238
D	Horn Head	C. F. Stewart, Esq.	5	1	0	160	42·34	245
D	Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1	0	130	50·45	250
	Malin Head	The Meteor. Council	8	1	0	220	28·81	231

H. S. W.